

Fig. 1

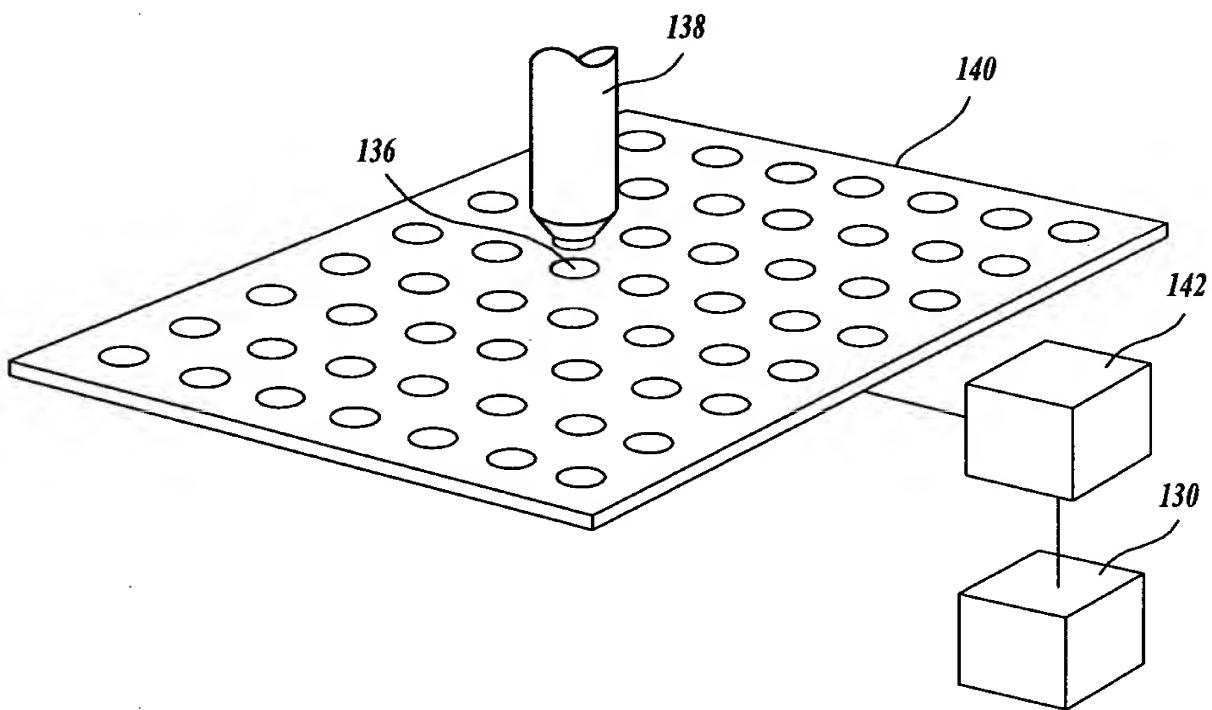


Fig. 1A

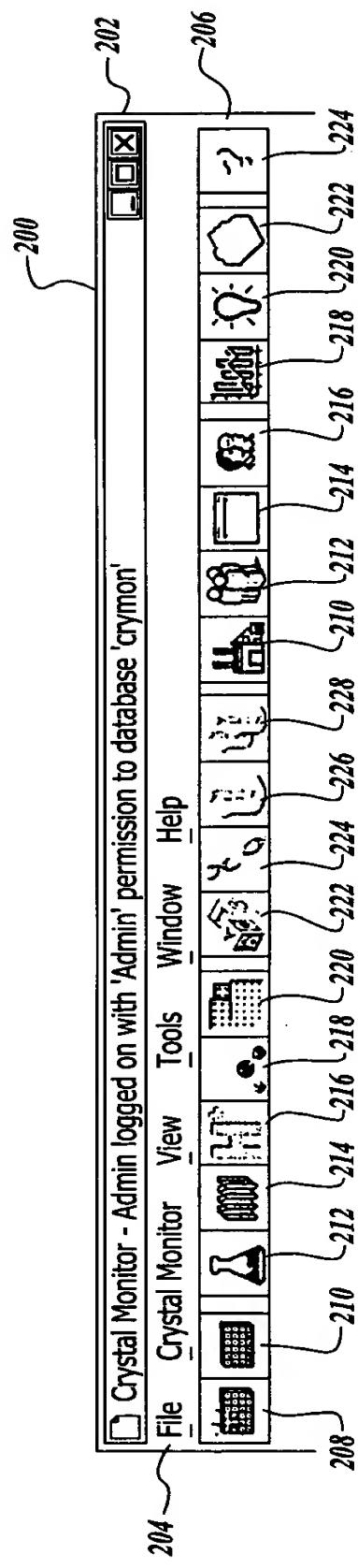


Fig. 2

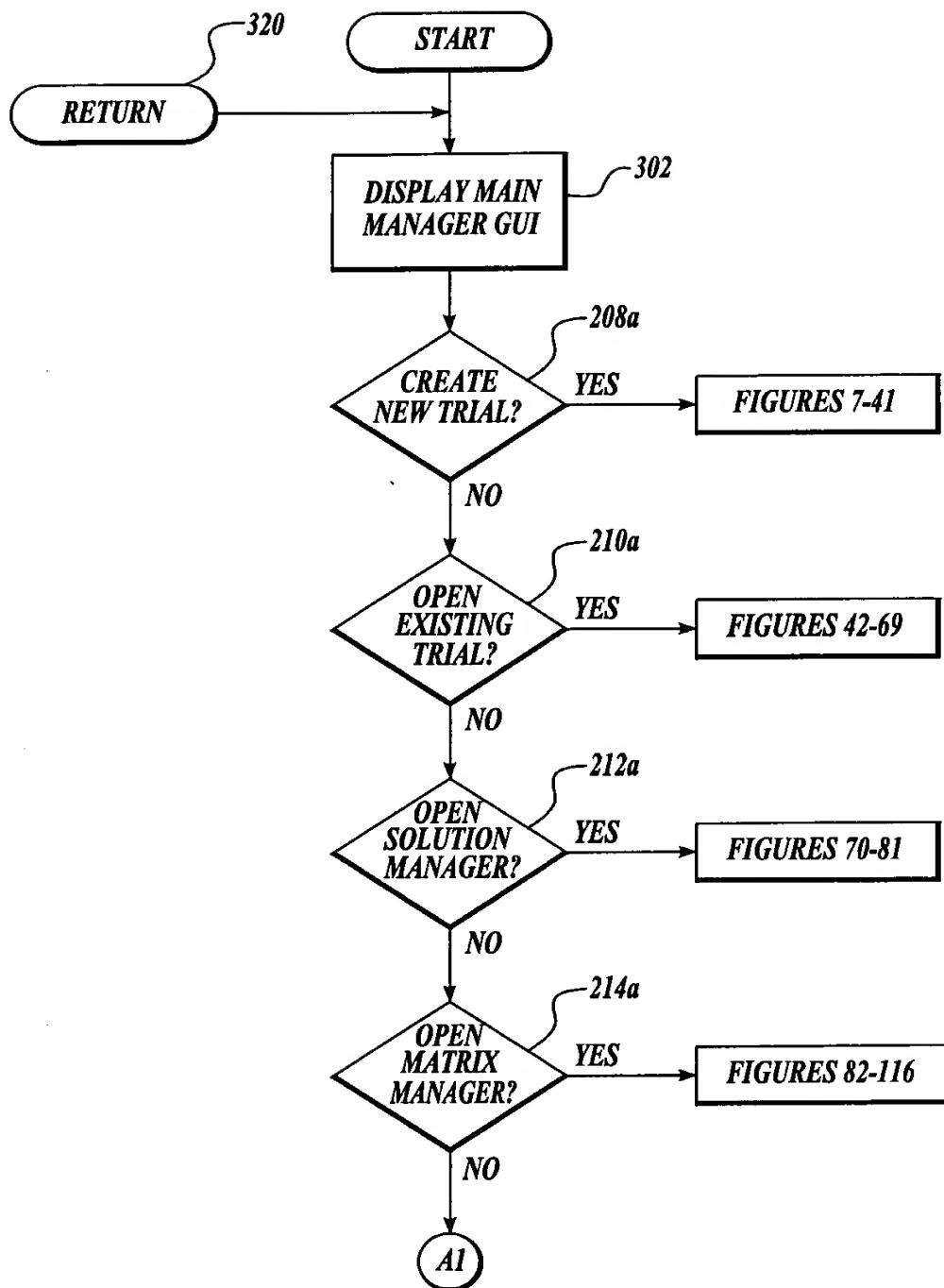


Fig. 3

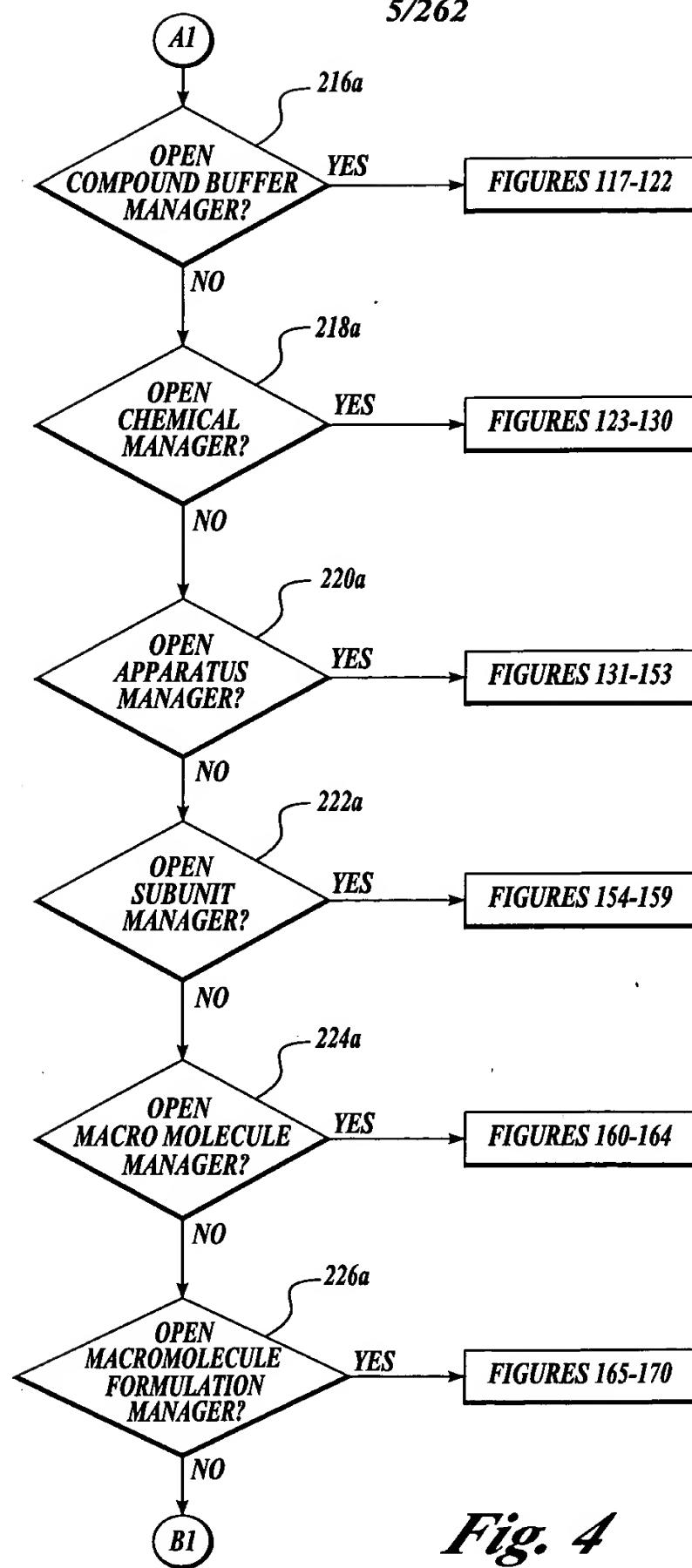


Fig. 4

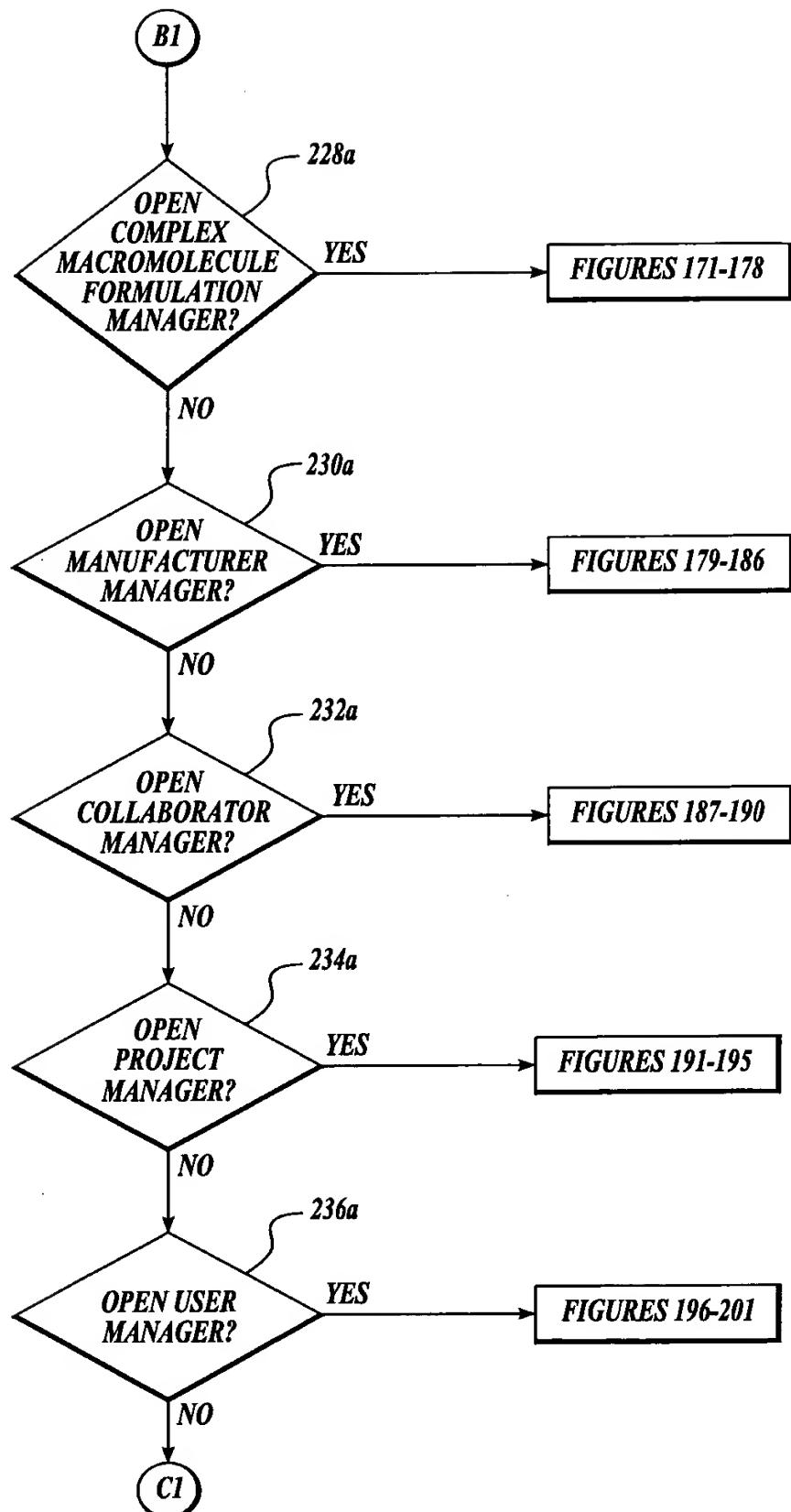


Fig. 5

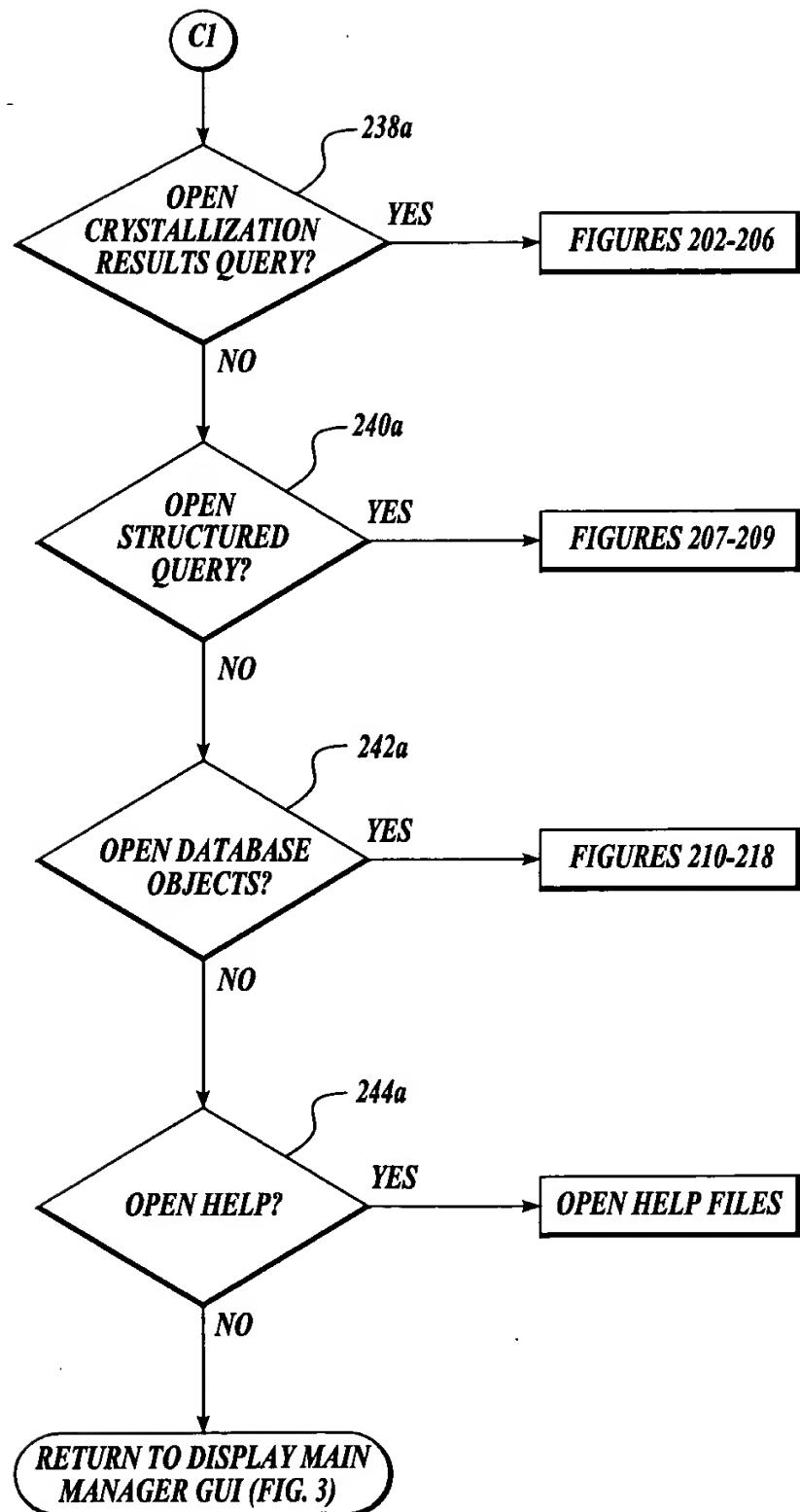


Fig. 6

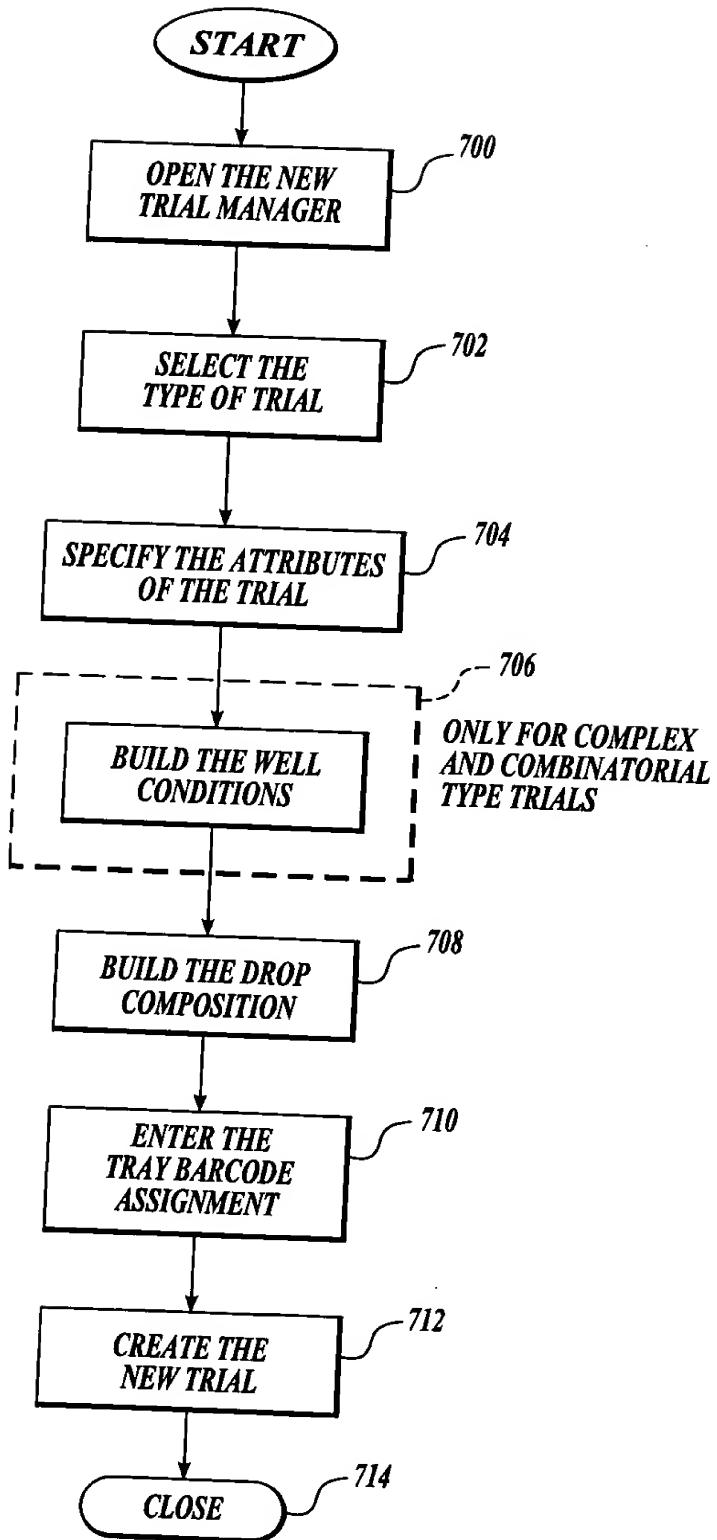


Fig. 7

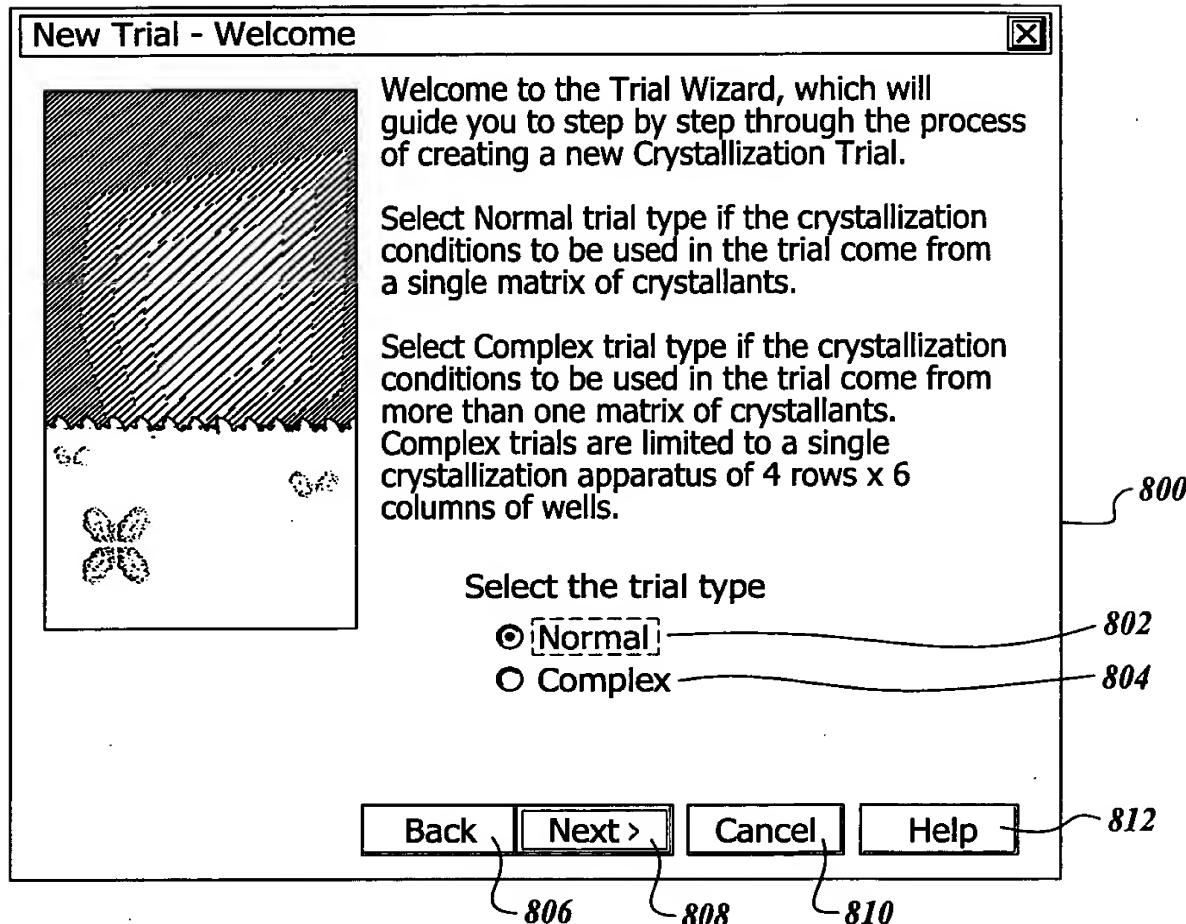


Fig. 8

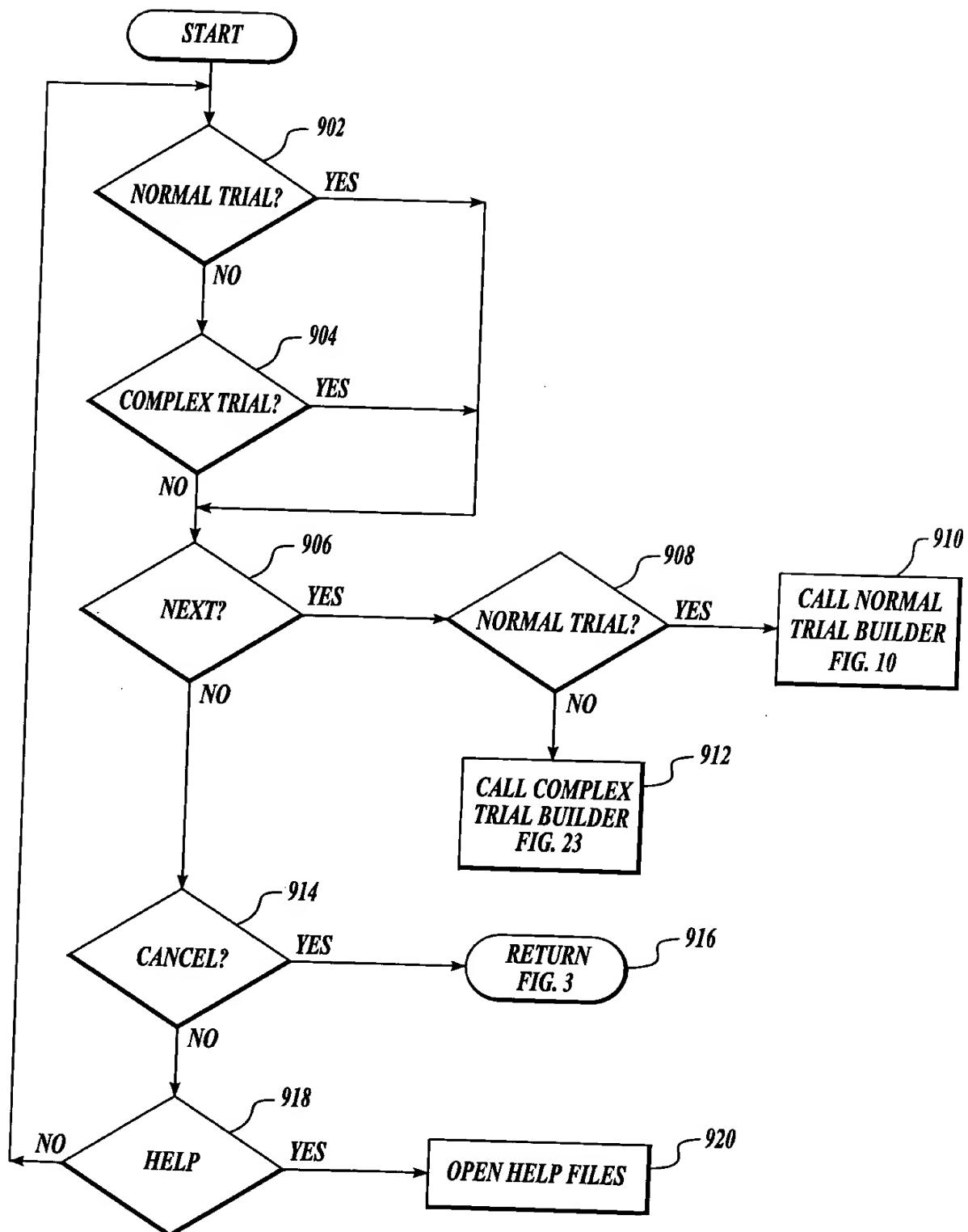


Fig. 9

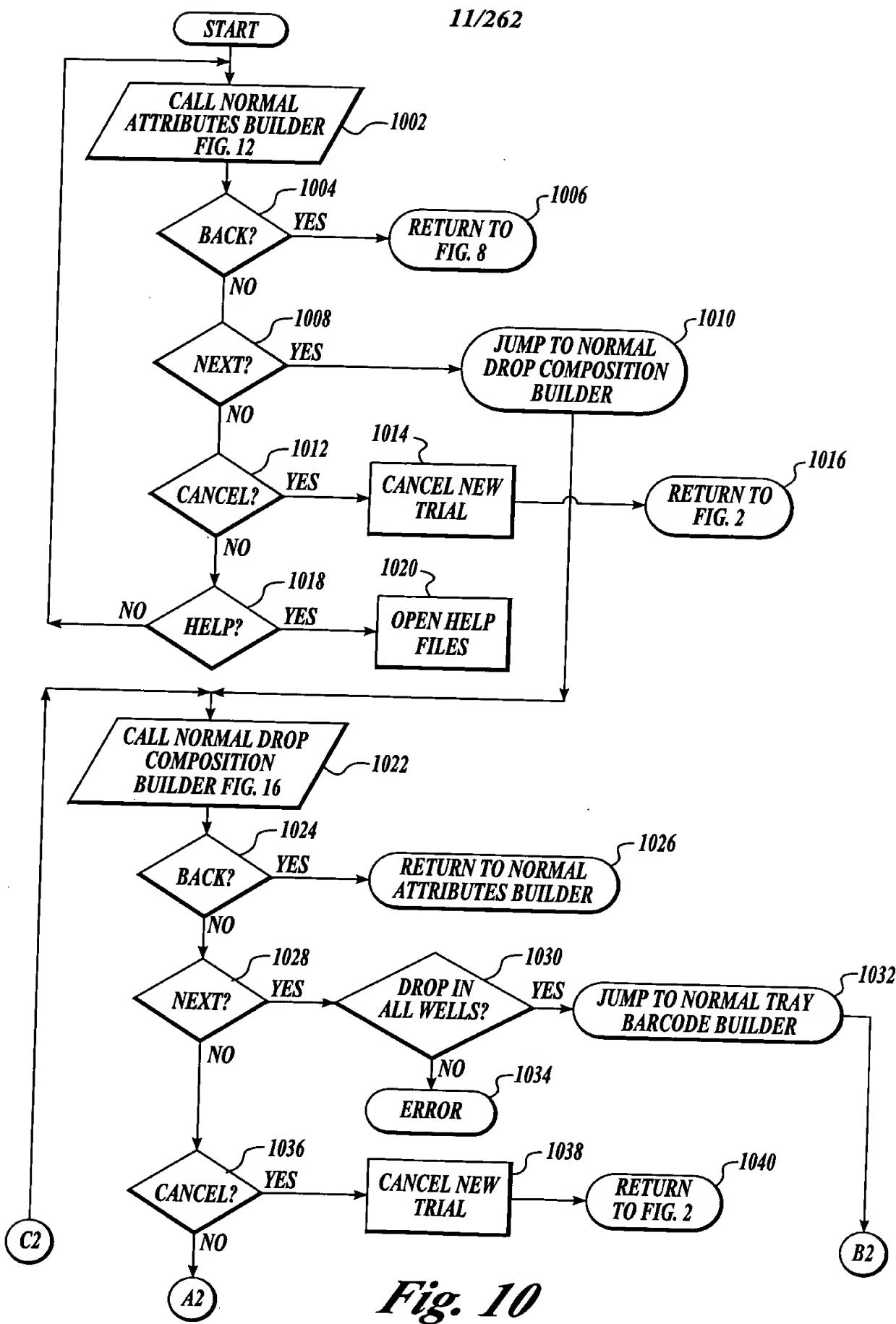


Fig. 10

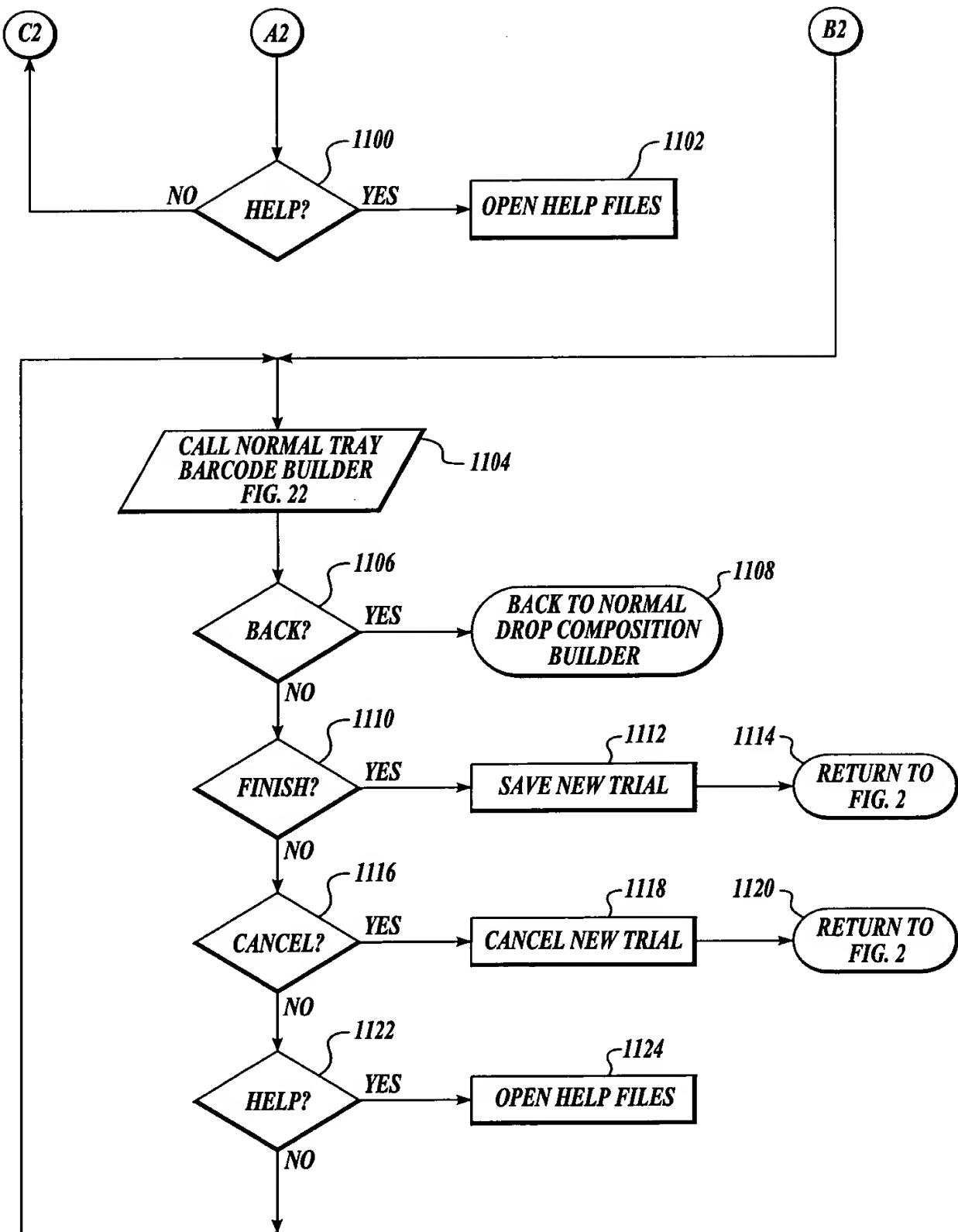


Fig. 11

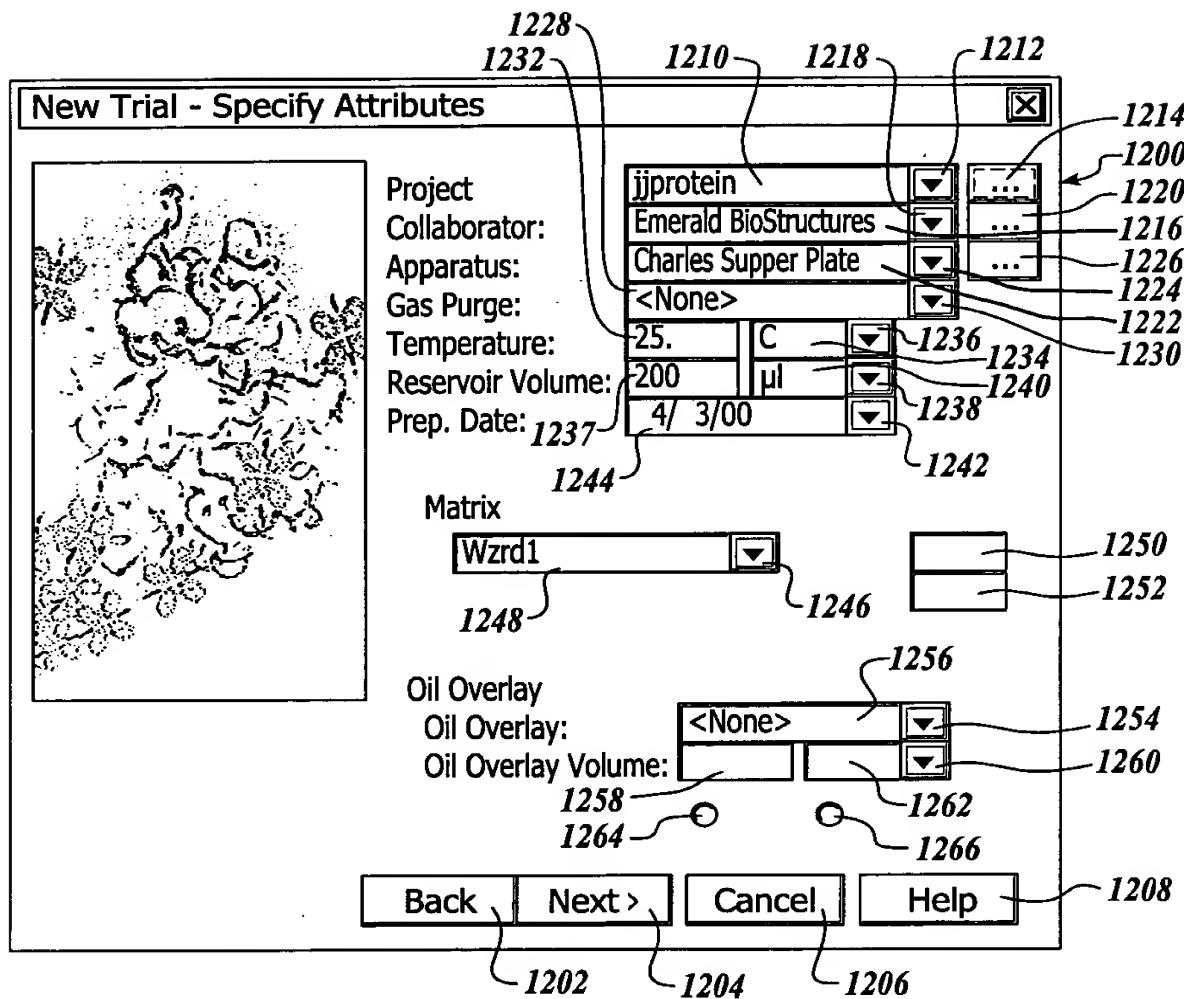


Fig. 12

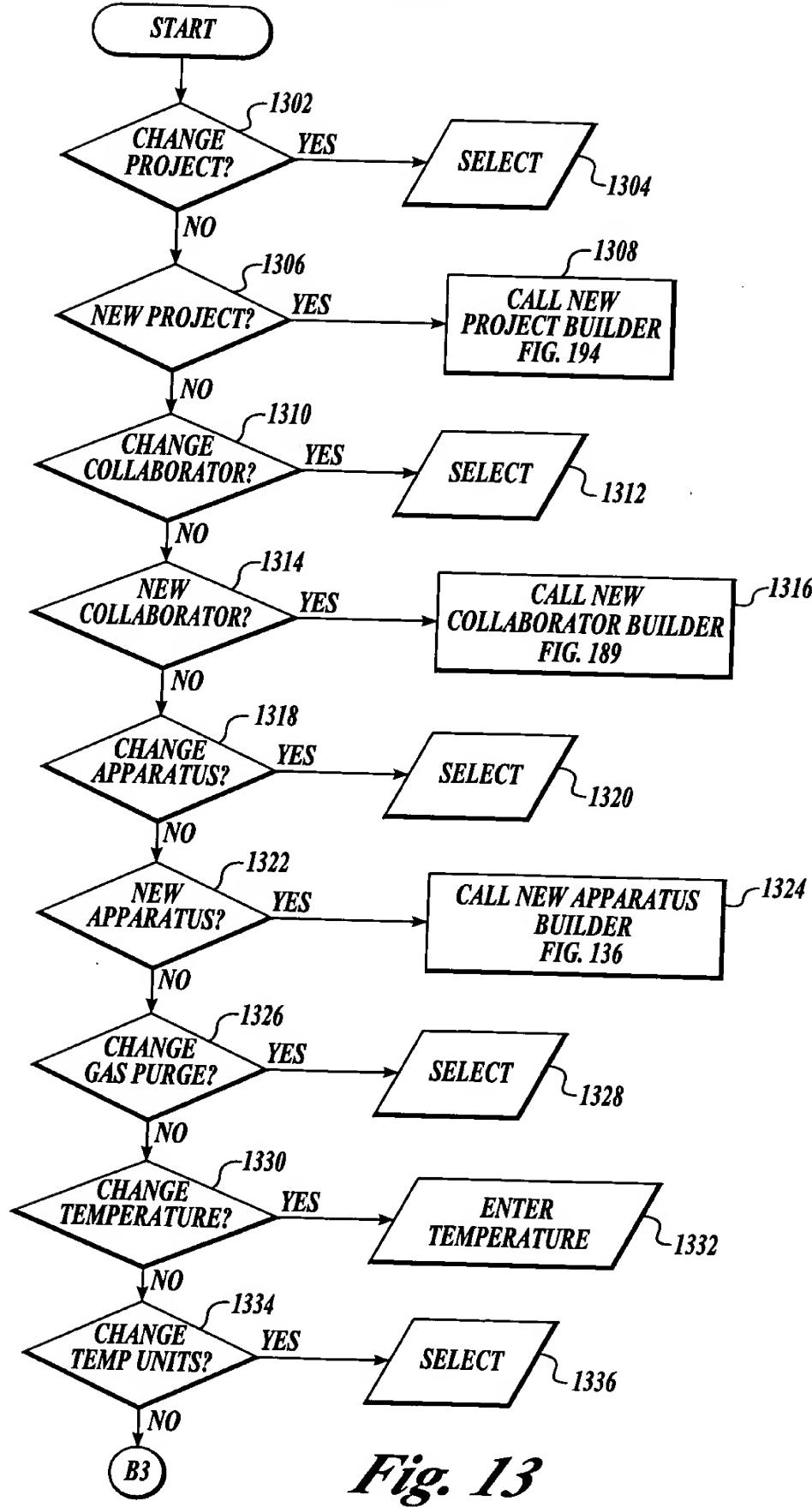


Fig. 13

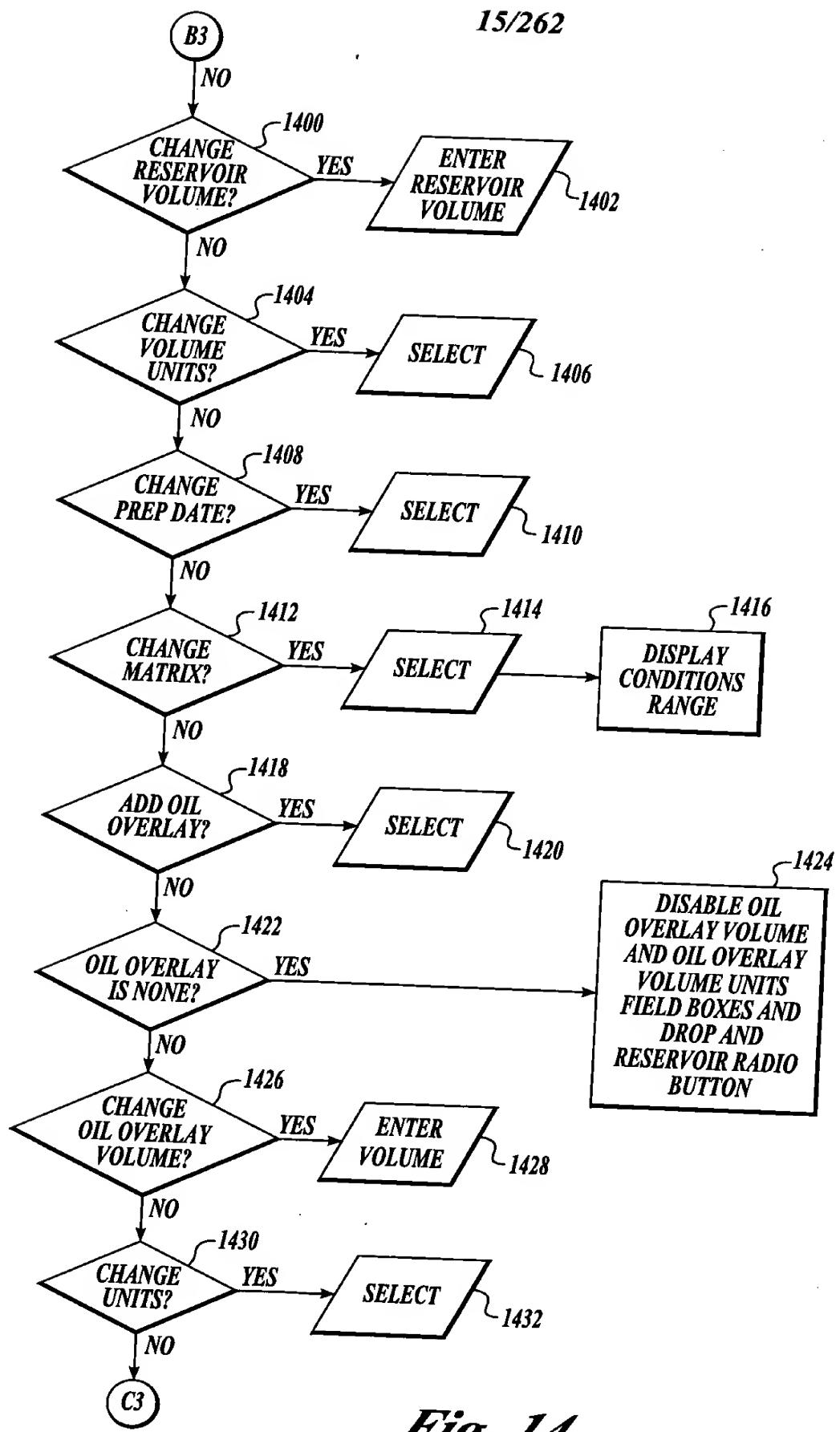


Fig. 14

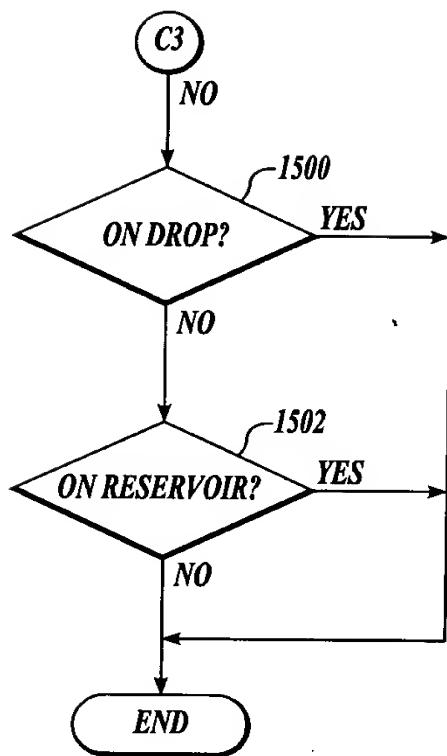


Fig. 15

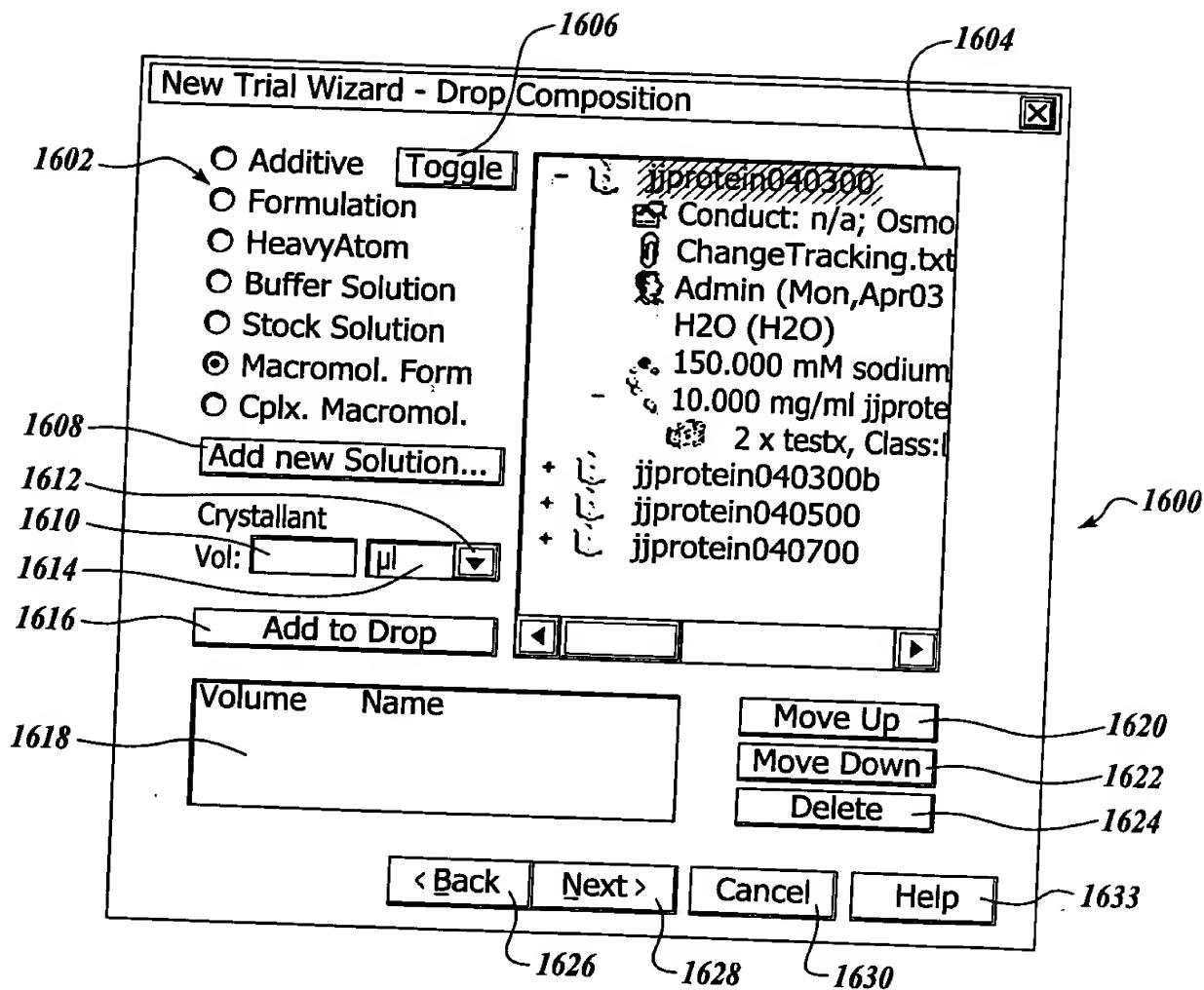


Fig. 16

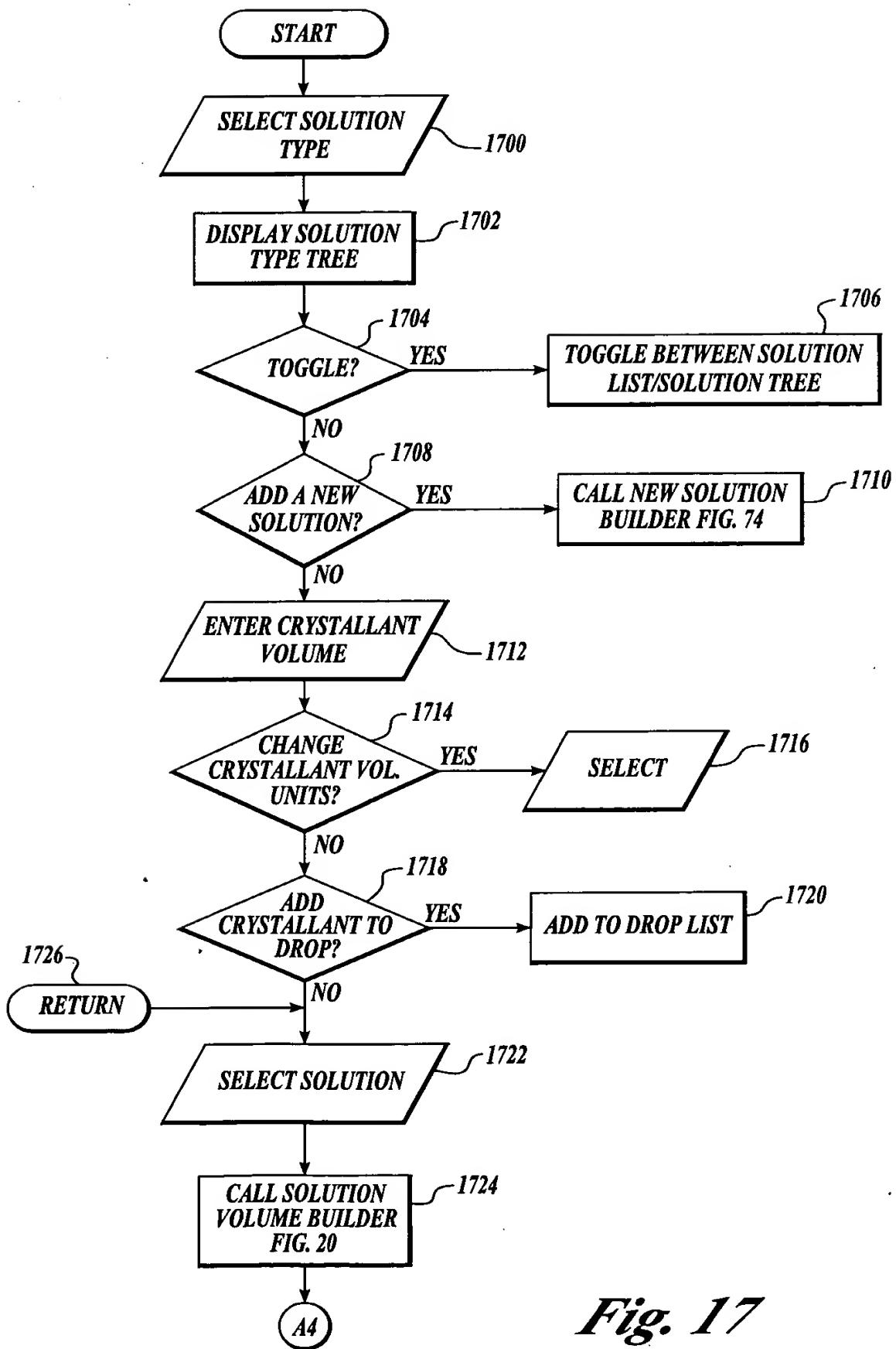


Fig. 17

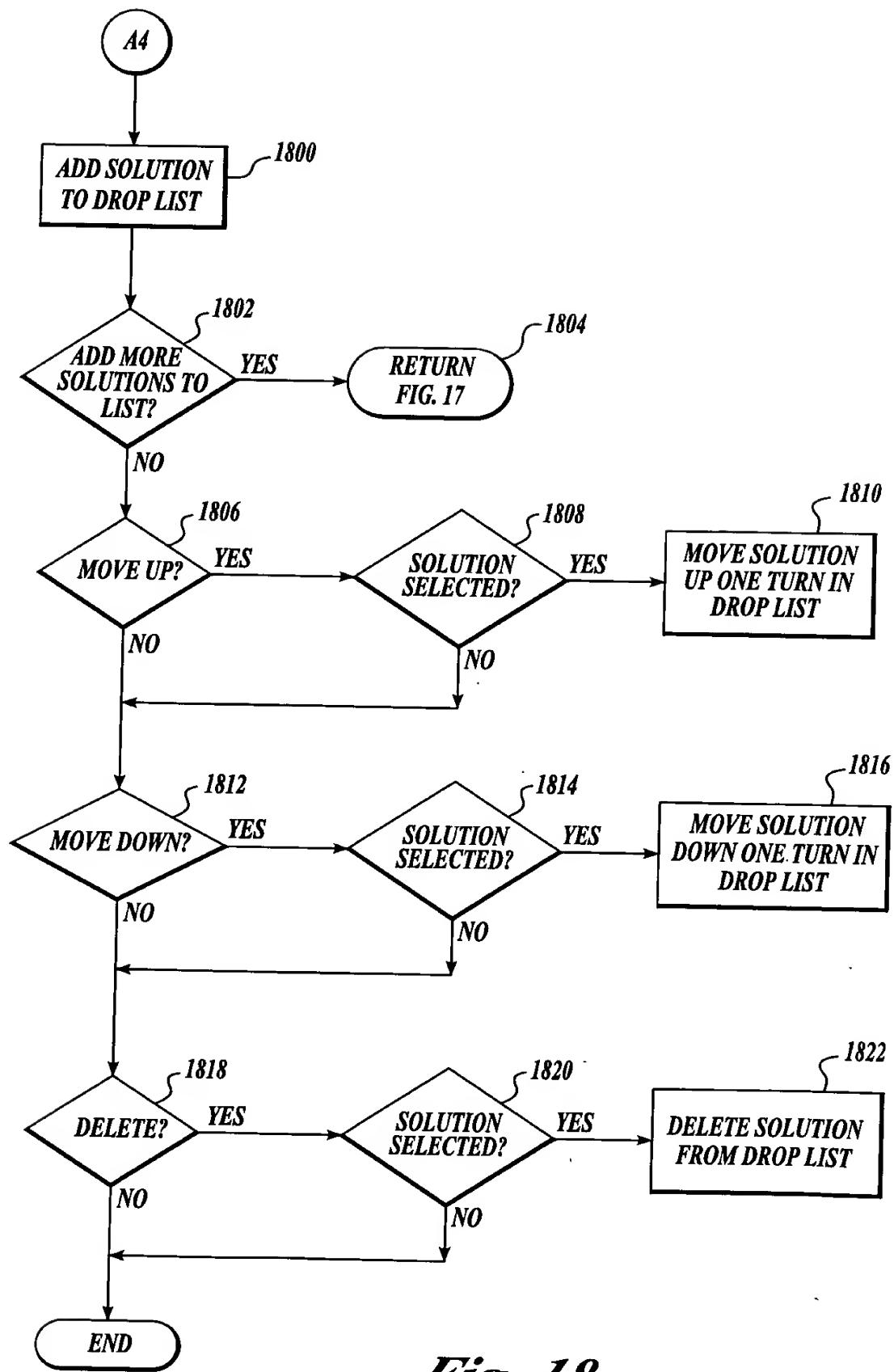


Fig. 18

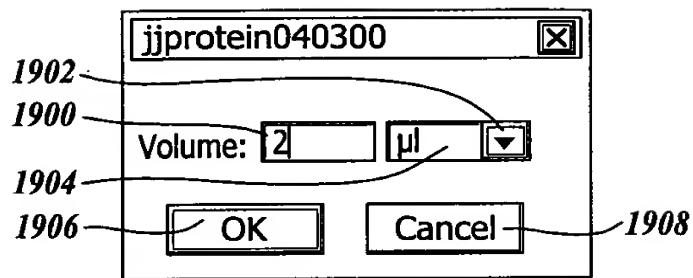


Fig. 19

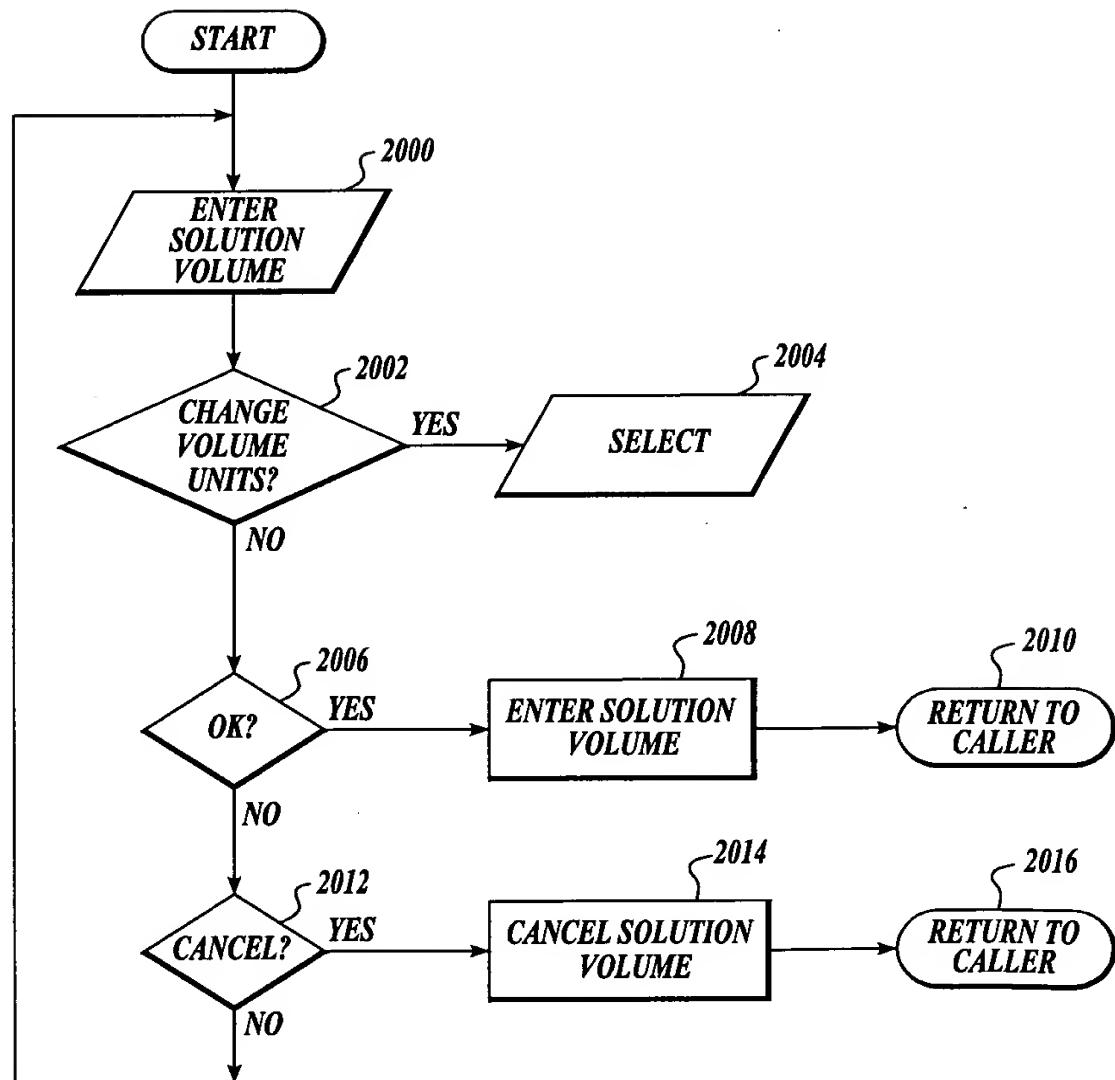


Fig. 20

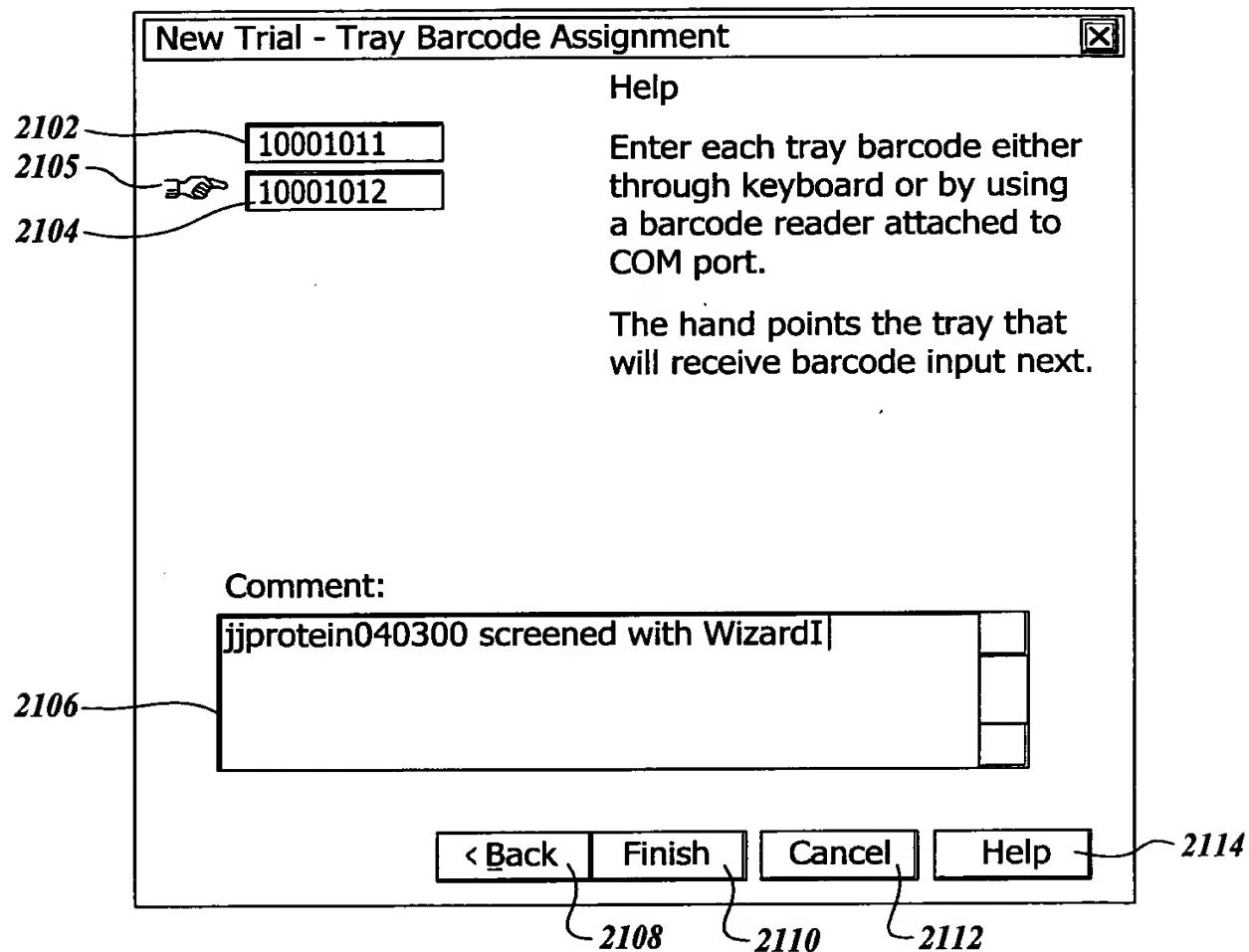


Fig. 21

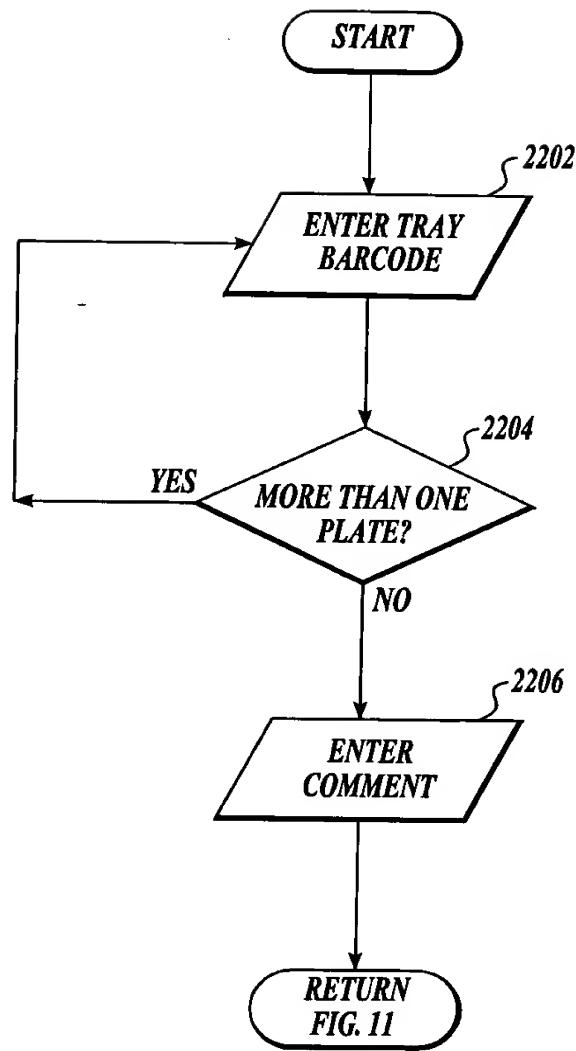


Fig. 22

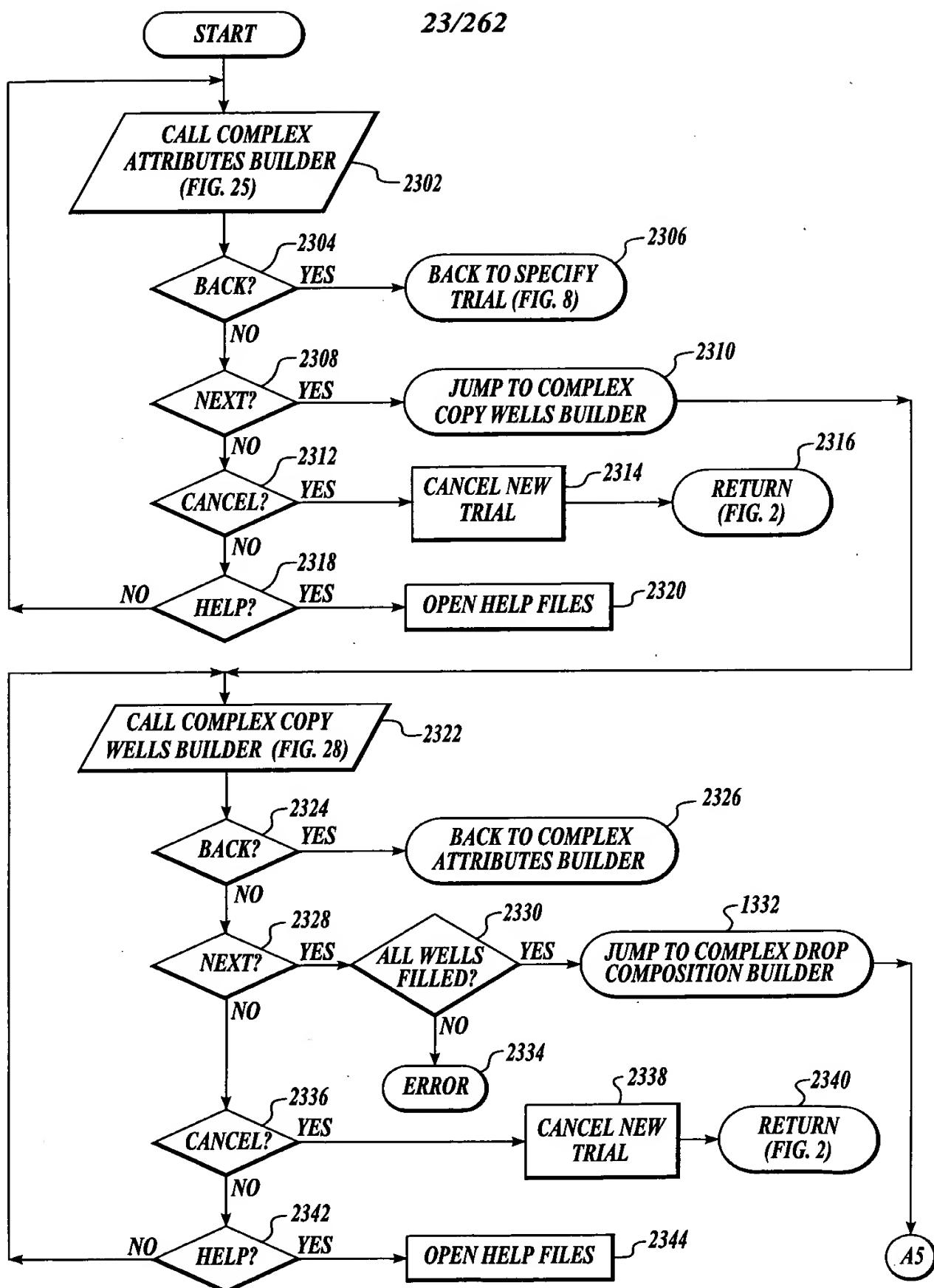


Fig. 23

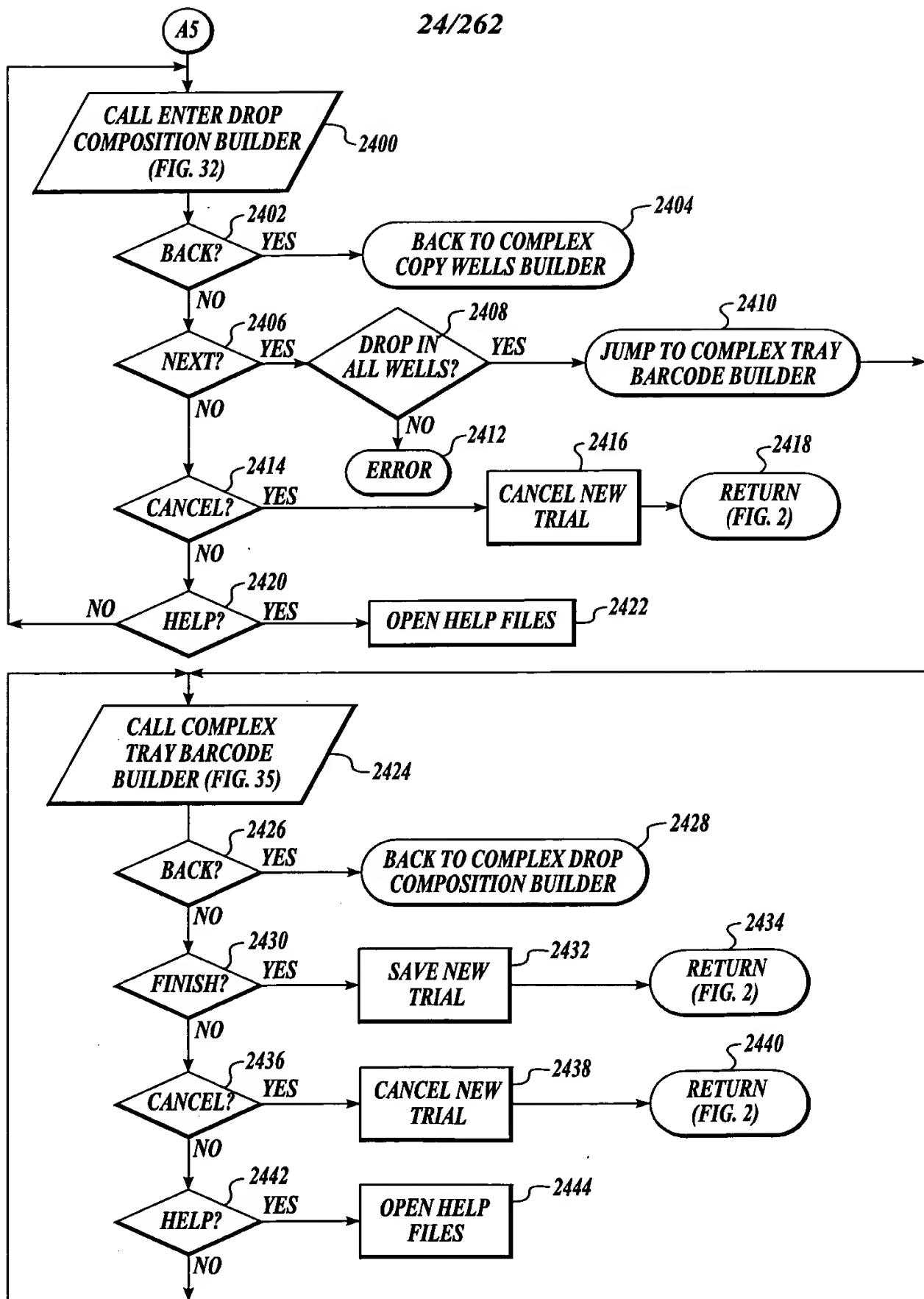


Fig. 24

25/262

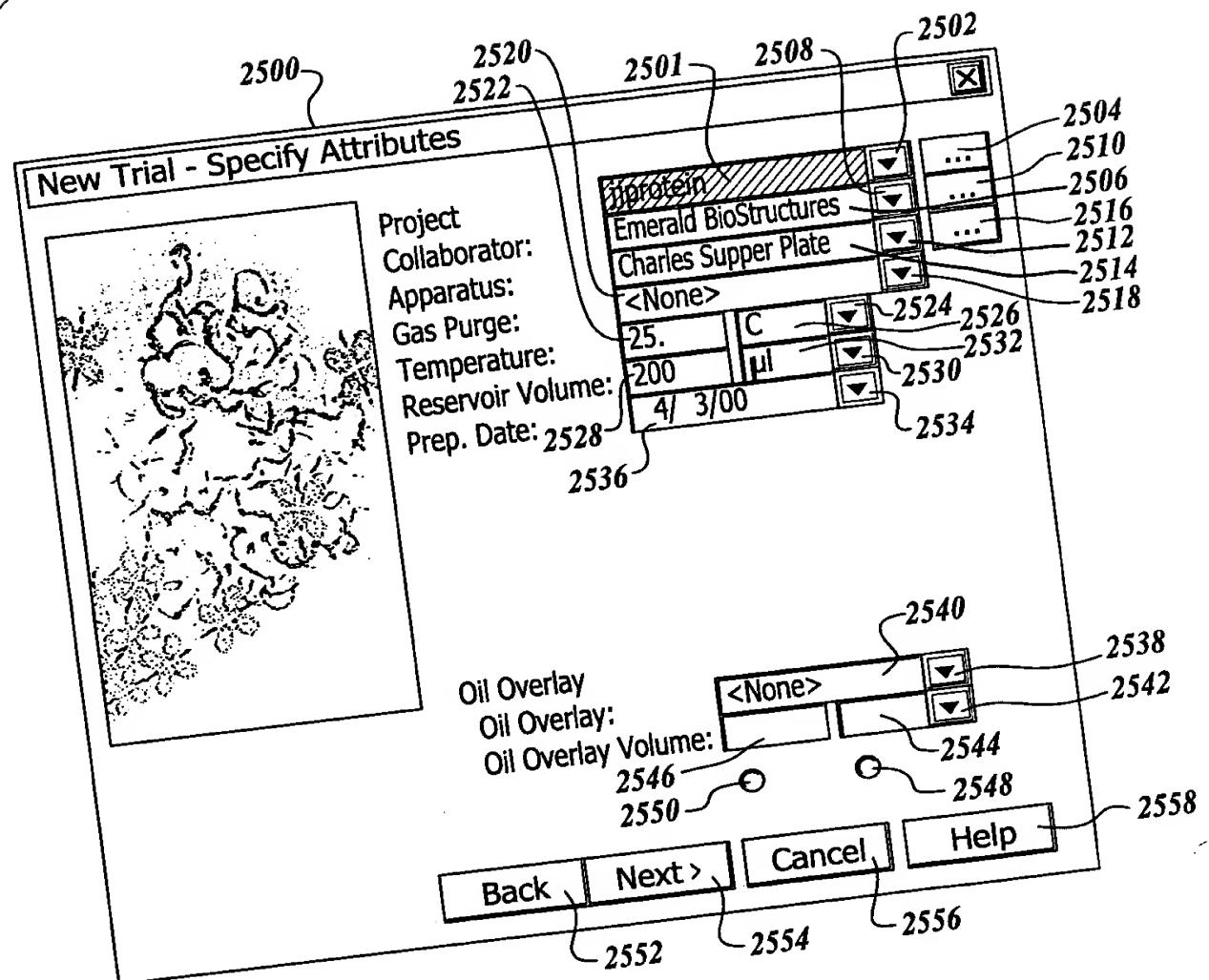


Fig. 25

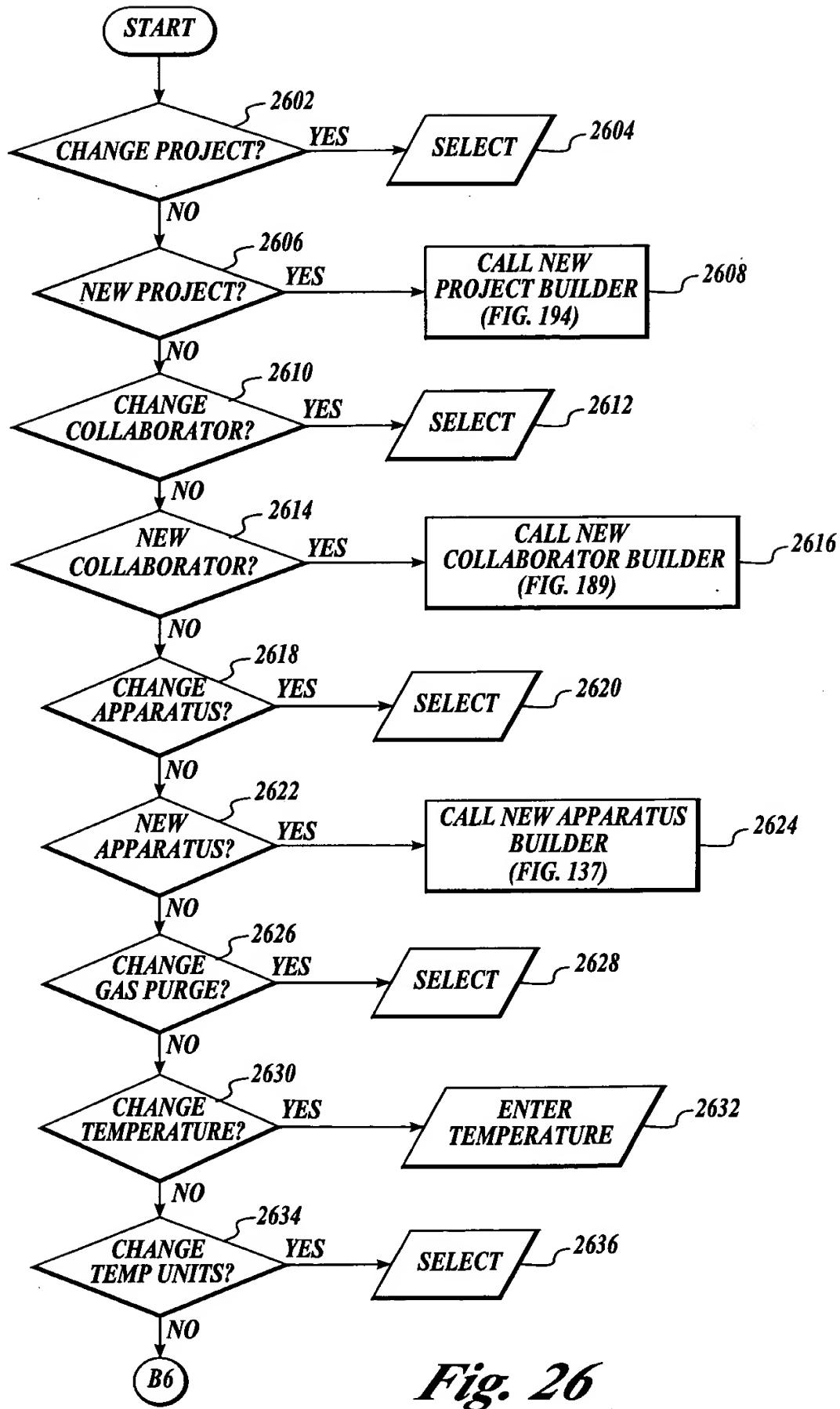


Fig. 26

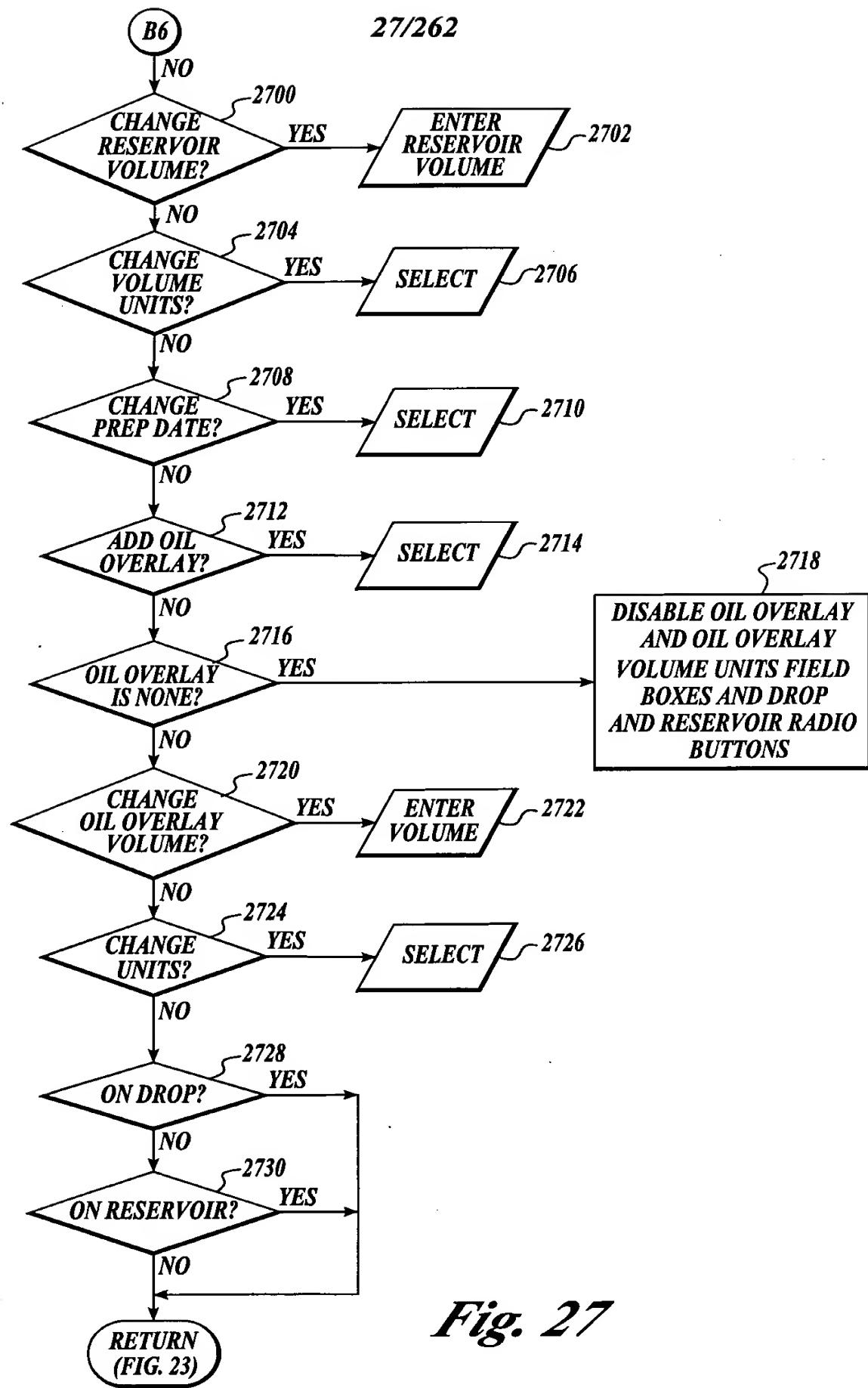


Fig. 27

2800 ↴ 2816 ↴ 2818 ↴ 2802 ↴ 2814 ↴ 2806 ↴ 2809 ↴ 2810 ↴ 2812 ↴

[X]

New Trial Wizard - Copy Well

Select Source Matrix: Dilution(%): 100 Dilute sel Clear Sel all... ▲▼ 2 Copy Copy all

Cryo (48 conditions) Charles Supper plate 4x Combinatorial

pH 4.20	pH 4.50	pH 5.50	pH 7.50	pH 5.50	pH 6.50	▲	pH 4.50					
pH 8.50	pH 6.50	pH 4.20	pH 8.00	pH 8.50	pH 4.50	▼	pH 4.50					
pH 6.00	pH 4.20	pH 9.50	pH 6.00	pH 7.50	pH 8.00	▼	▼	▼	▼	▼	▼	▼
pH 8.50	pH 5.50	pH 4.50	pH 6.20	pH 7.00	pH 6.20	▼	▼	▼	▼	▼	▼	▼
pH 8.50	pH 9.50	pH 10.50	pH 7.50	pH 9.50	pH 5.50	▼	▼	▼	▼	▼	▼	▼
pH 8.50	pH 9.50	pH 8.00	pH 8.00	pH 7.50	pH 7.00	▼	▼	▼	▼	▼	▼	▼

2804 ↴ 2805 ↴ 2806 ↴ 2807 ↴ 2808 ↴ 2809 ↴ 2810 ↴ 2811 ↴ 2812 ↴

2822 ↴ 2824 ↴ 2826 ↴ 2828 ↴

Back Next > Cancel Help

Emerald's Cryo I Crystal Growth Matrix. All crystallants (1-48) flash-freeze as an amorphous glass at 100 K.

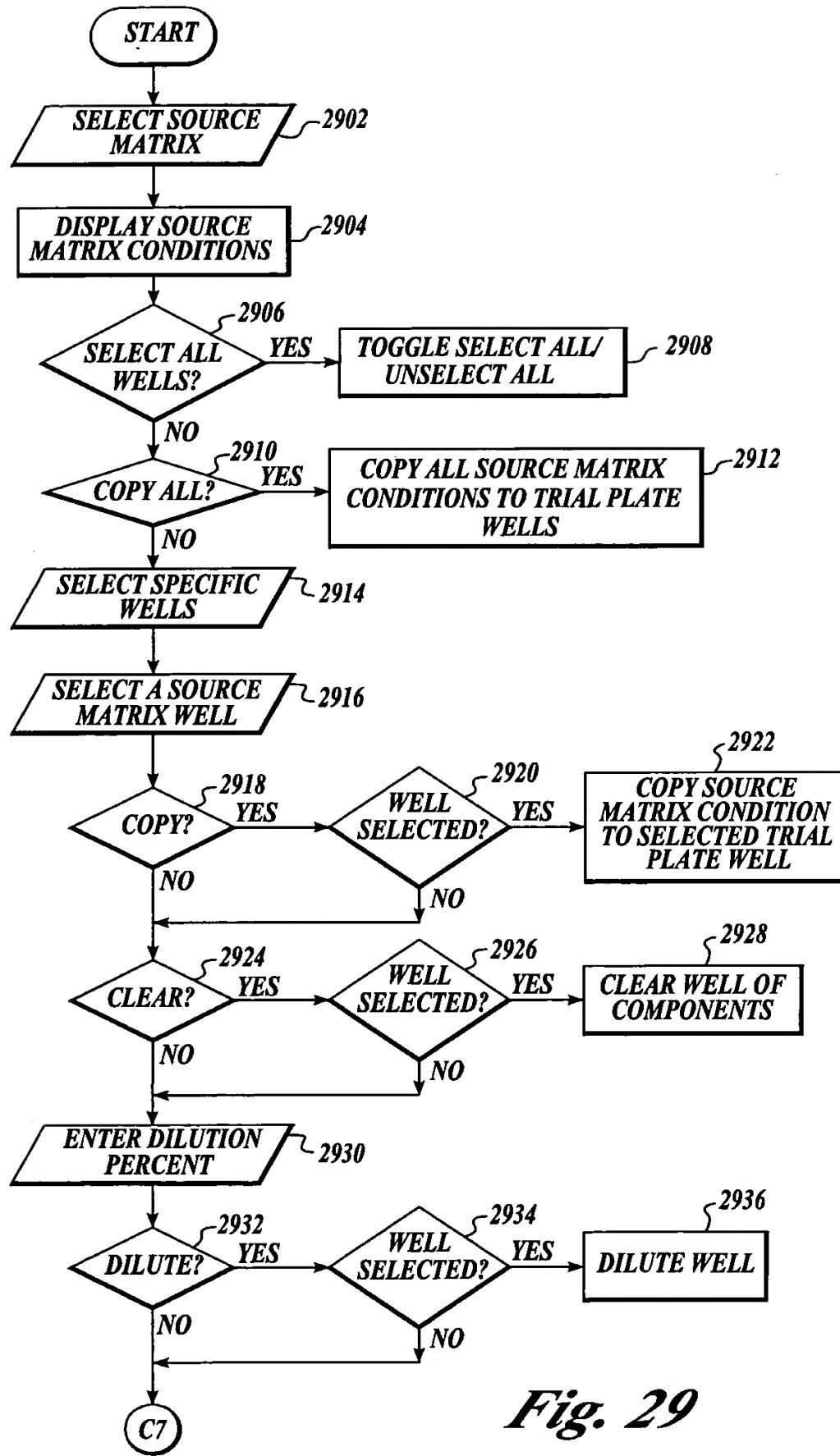


Fig. 29

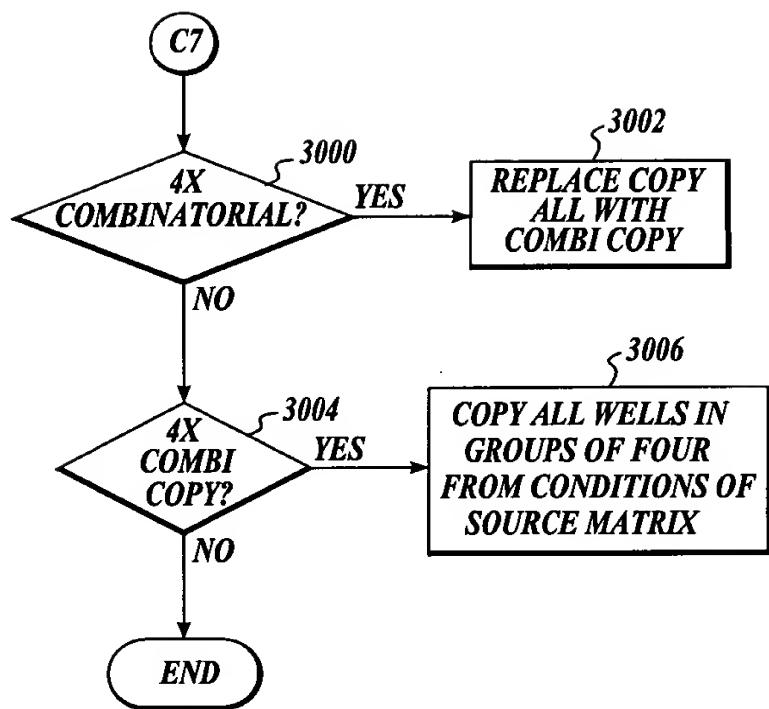


Fig. 30

31/262

New Trial Wizard - Drop Composition

3100

3101 Additive Formulation List ->

3102 HeavyAtom Buffer Solution Stock Solution Macromol. Form. Cpx. Macromol.

3103 + jprotein040300 + jprotein040300b

3104 Add new Solution...

3105 Crystallant Vol: 2 ▶

3106 3107

3108 3109

3110 3111

3111 Volume Name
2.000 μ l jprotein040300
2.000 μ l Crystallant

3112 3113

3113 Move Up 3114

3114 Move Down Delete

3115 3116

3116 Transfer Drop to sel. Wells

3117 3118

3118 3119

3119 3120

3120 3121

3121 3122

3122 3123

3123 3124

3124 3125

3125 3126

3126 Clear Drop Charles Supper plate Sel all 3127

3127

3128

3129

3130

3131

3132

3133

3134

3135

3136

Fig. 31

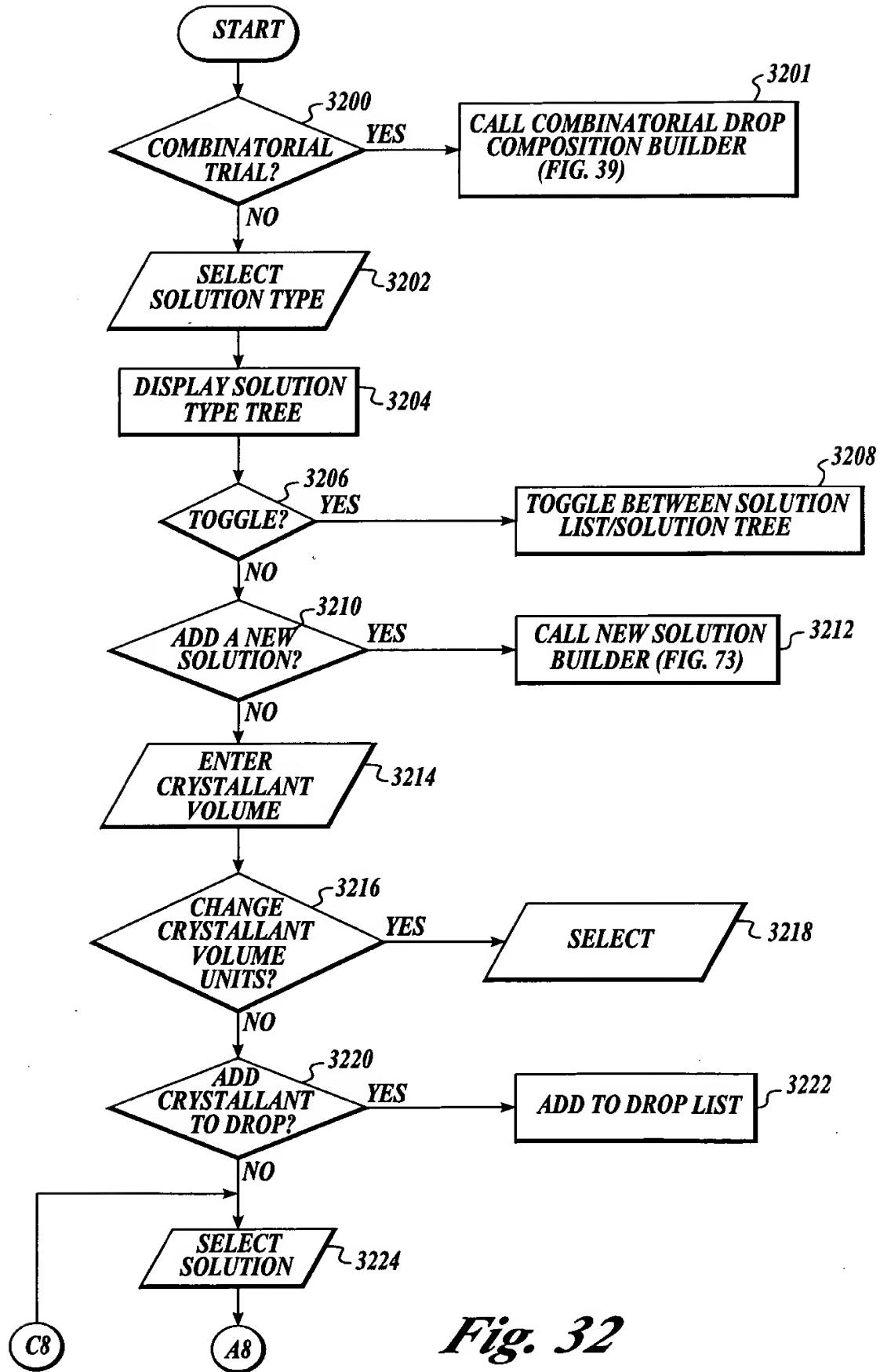


Fig. 32

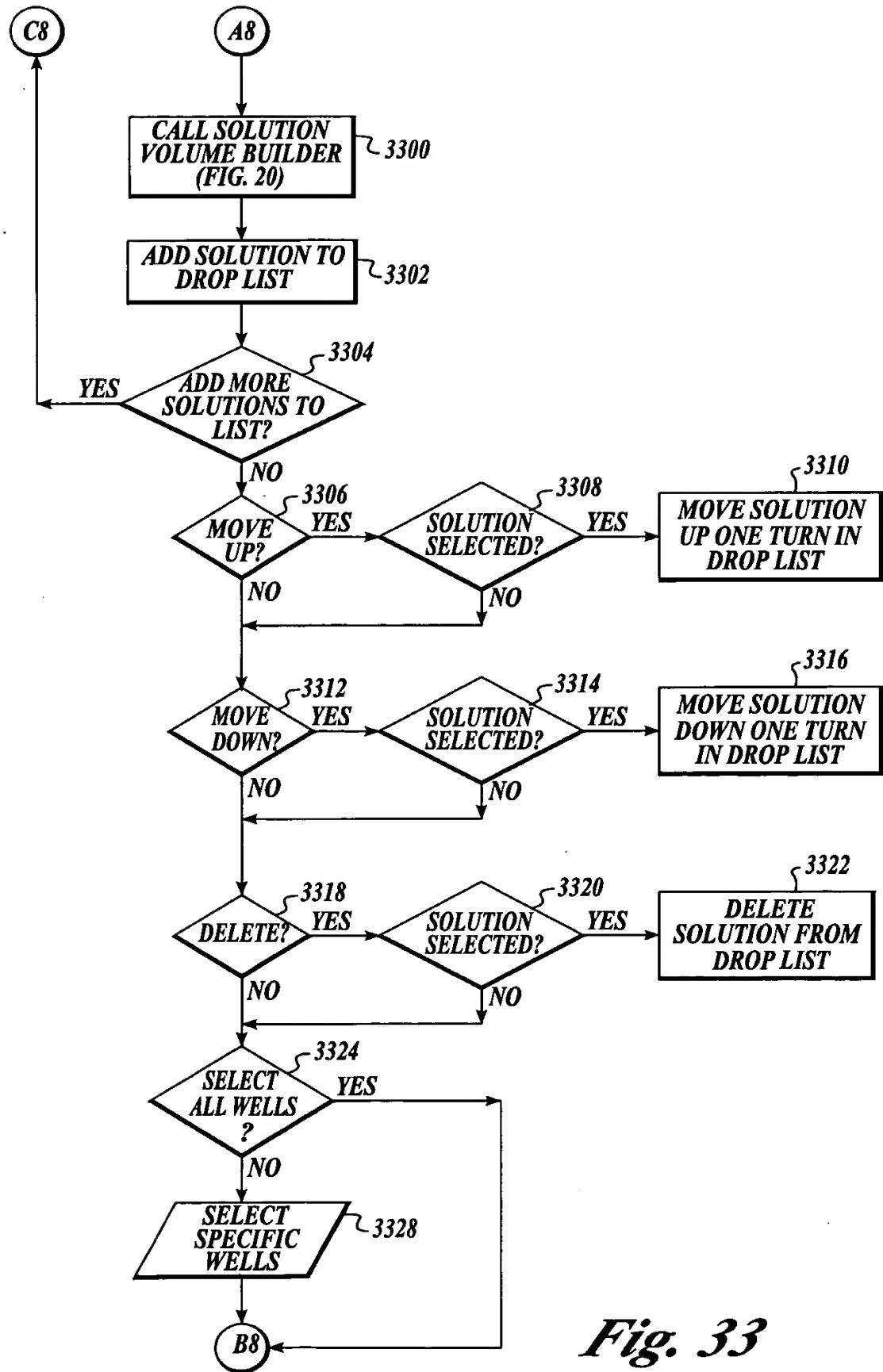


Fig. 33

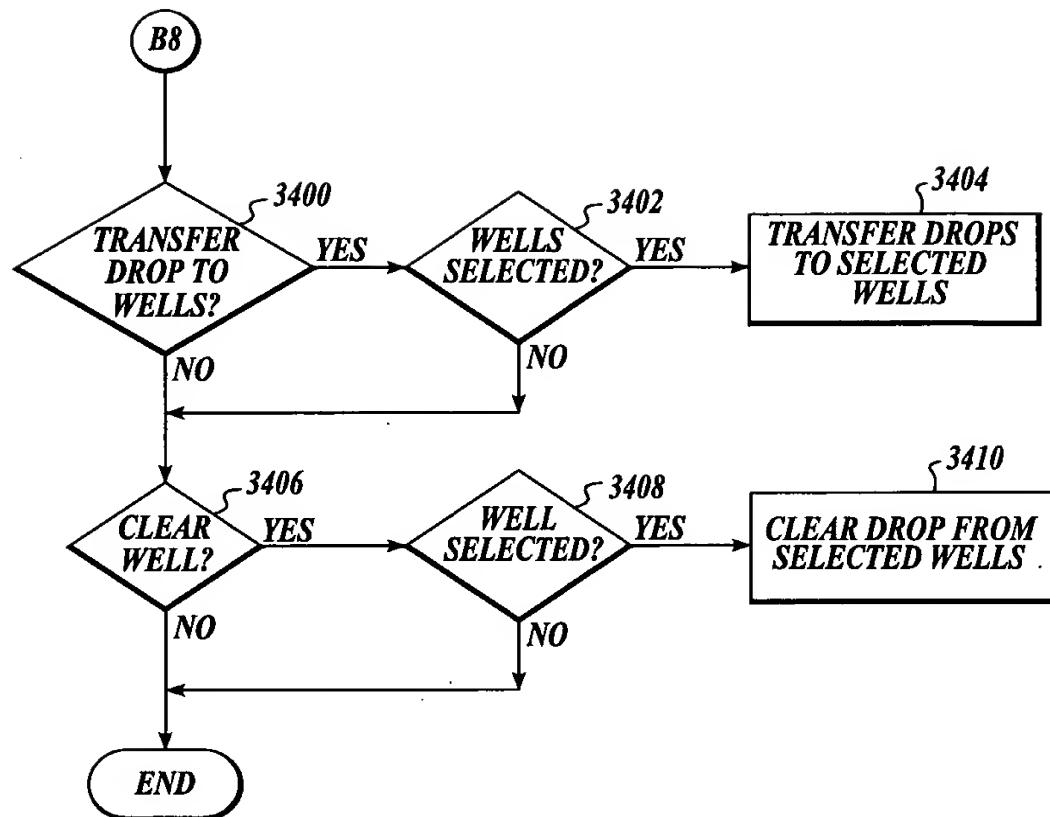


Fig. 34

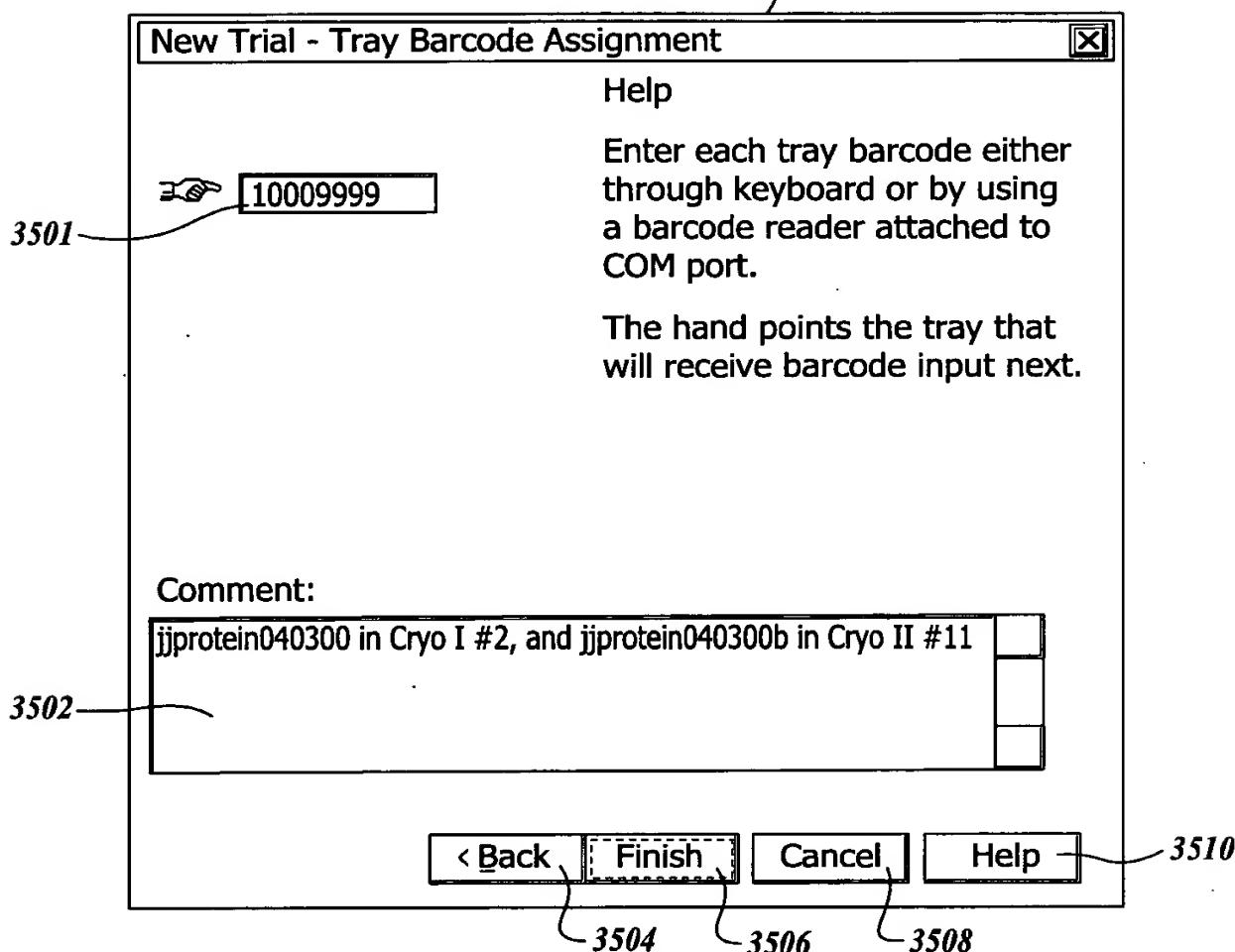


Fig. 35

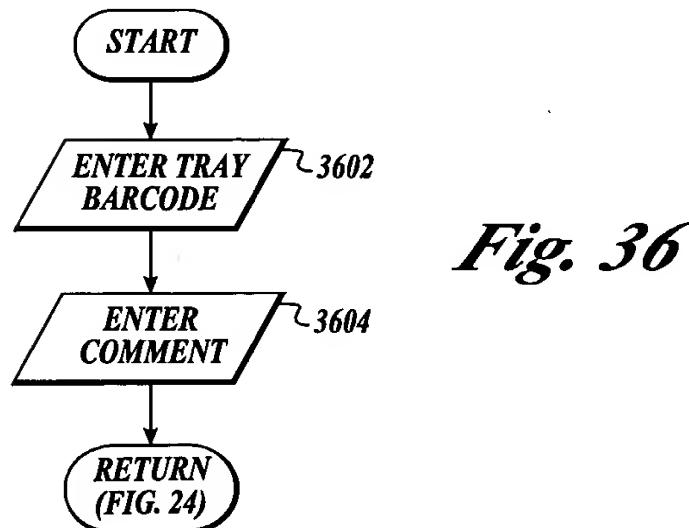


Fig. 36

36/262

3706

3700

3708

3701

3702

3714

3712

3710

3711

3716

New Trial Wizard - Copy Well

Select Source Matrix		Dilution(%):	100	Dilute sel	Clear	Sel all...	Up ▲	Down ▼	Copy	4x Combi Copy	4x Combinatorial
Wzrd1 (48 conditions)		<input checked="" type="checkbox"/> VDX plate 4x combi <input type="checkbox"/> 4x Combinatorial									
pH 9.50	pH 7.50	pH 9.50	pH 8.00	pH 10.50	pH 5.50	pH 9.50	pH 7.50	pH 7.50	pH 9.50	pH 9.50	
pH 6.00	pH 5.50	pH 4.50	pH 7.00	pH 6.00	pH 8.00	pH 9.50	pH 7.50	pH 7.50	pH 9.50	pH 9.50	
pH 6.50	pH 6.50	pH 8.00	pH 6.20	pH 4.50	pH 8.00	pH 6.00	pH 5.50	pH 5.50	pH 4.50	pH 4.50	
pH 7.00	pH 8.00	pH 7.50	pH 8.50	pH 8.00	pH 7.00	pH 6.00	pH 5.50	pH 5.50	pH 4.50	pH 4.50	
pH 8.50	pH 9.50	pH 10.50	pH 7.50	pH 9.50	pH 4.50	pH 6.50	pH 6.50	pH 6.50	pH 8.00	pH 8.00	
pH 4.20	pH 6.20	pH 10.50	pH 8.00	pH 4.50	pH 8.00						

Back Next > Cancel Help

Emerald's Wizard I Crystal Growth Matrix. A random sparse matrix of crystallants (1-48).

Fig. 37

3800

New Trial Wizard - Drop Composition

Additive List ->

○ Formulation ○ HeavyAtom
 ○ Buffer Solution ○ Stock Solution
 ○ Macromol. Form. ○ Cpx. Macromol.

Add new Solution...

Crystallant Vol: [2]

Volume Name
 2.00 μl yyz4810
 2.00 μl Crystallant

Transfer Drop to sel. Wells

Clear Drop Sel all CombiClover

3801 3802

(2) 4	(2)	(3) 4	(2) 4	(2) 4	(2)
pH 9.50	pH 9.50	pH 7.50	pH 7.50	pH 9.50	pH 9.50
Wzrd1 1	Wzrd1 1	Wzrd1 2	Wzrd1 2	Wzrd1 3	Wzrd1 3

(2) 4	(2)	(3)	(2) 4	(2) 4	(2)
pH 9.50	pH 9.50	pH 7.50	pH 7.50	pH 9.50	pH 9.50
Wzrd1 1	Wzrd1 1	Wzrd1 2	Wzrd1 2	Wzrd1 3	Wzrd1 3

(2) 4	(2)	(3)	(2) 4	(2) 4	(2)
pH 6.00	pH 6.00	pH 5.50	pH 5.50	pH 4.50	pH 4.50
Wzrd1 7	Wzrd1 7	Wzrd1 8	Wzrd1 8	Wzrd1 9	Wzrd1 9

(3) 4	(3)	(2)	(2) 4	(2) 4	(2)
pH 6.00	pH 6.00	pH 5.50	pH 5.50	pH 4.50	pH 4.50
Wzrd1 7	Wzrd1 7	Wzrd1 8	Wzrd1 8	Wzrd1 9	Wzrd1 9

(2) 4	(2)	(2) 4	(2) 4	(2) 4	(2)
pH 6.50	pH 6.50	pH 6.50	pH 6.50	pH 8.00	pH 8.00
Wzrd1 13	Wzrd1 13	Wzrd1 14	Wzrd1 14	Wzrd1 15	Wzrd1 15

Move Up	Move Down	Delete			
---------	-----------	--------	--	--	--

Back Next > Cancel Help

3804 3806 3808 3810

Fig. 38

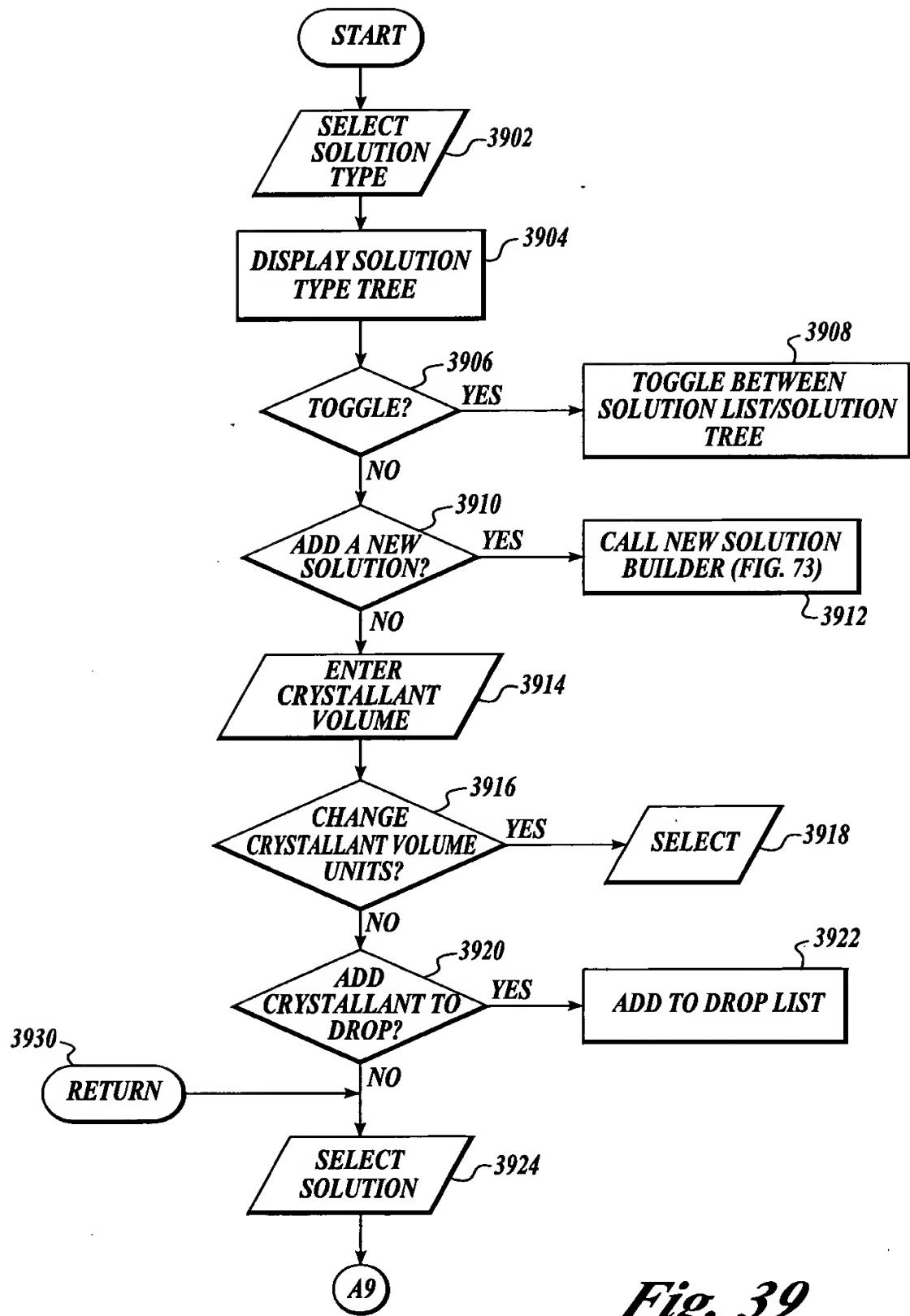


Fig. 39

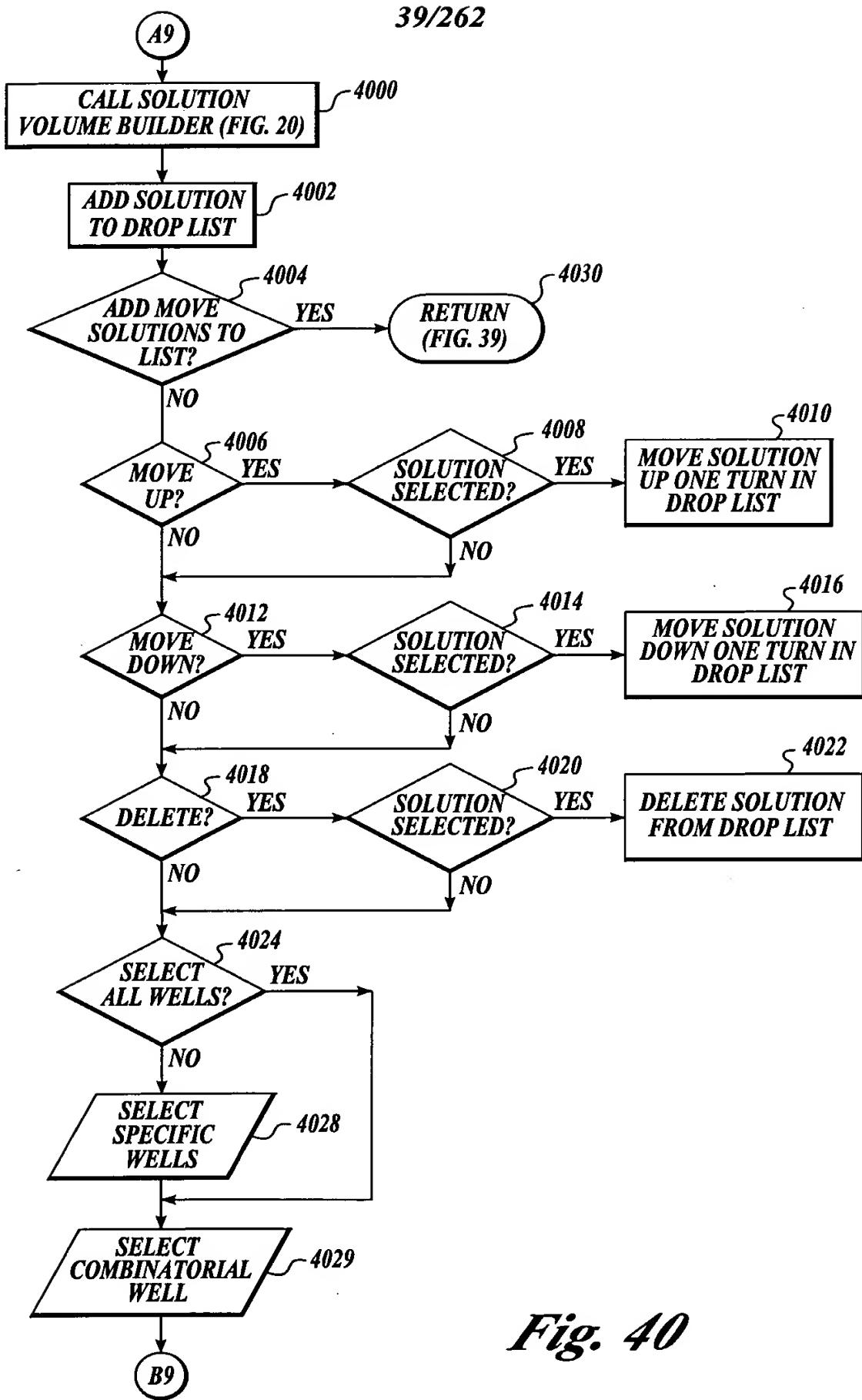


Fig. 40

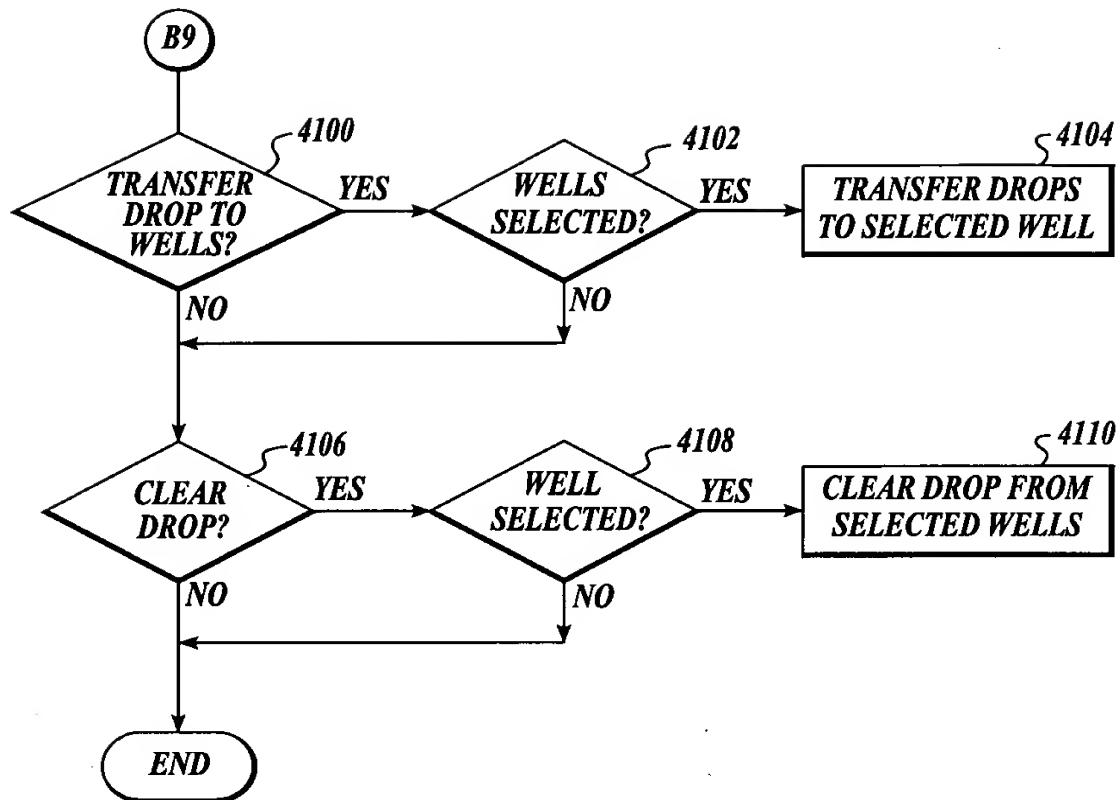


Fig. 41

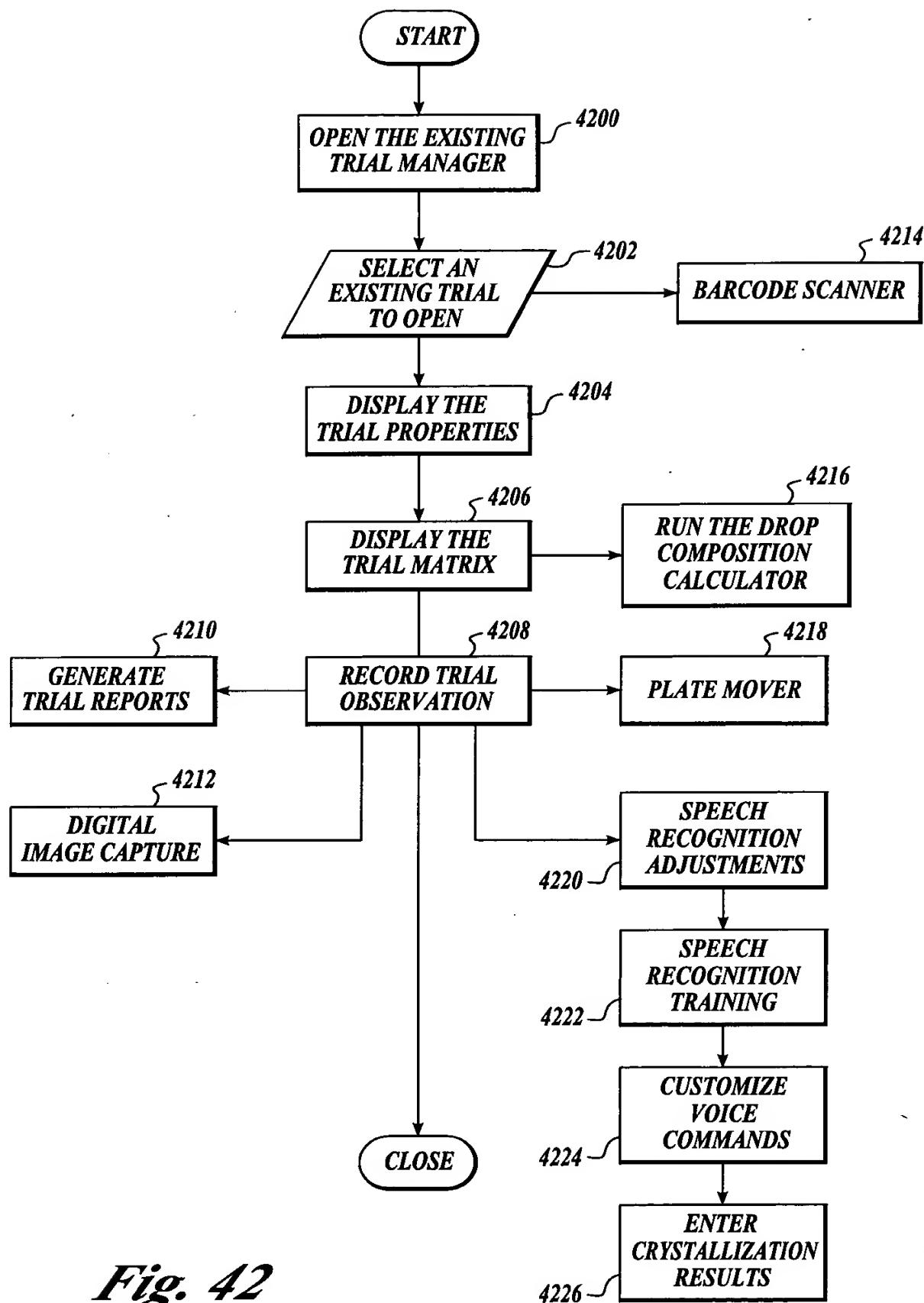


Fig. 42

Open Trial

From: Until:

TrialID	TrialType	ObservationSessions	UserName	SetupDate	ProjectName	Tempe
5	Complex	0	Admin	4/3/2000 17:....	jjprotein	25 C
4	Complex	0	Admin	4/3/2000 16:....	jjprotein	25 C
3	Normal	0	Admin	4/3/2000 16:....	test	25 C
2	Normal	1	Admin	4/3/2000 11:....	test	25 C
1	Normal	2	Admin	3/22/2000 1:....	test	25 C

Select one or more trials and click OK or use barcode reader to load a trial. The barcode reader is activated as long as the dialog is active.

Open

5 Trial(s) have been created between the specified dates.

Fig. 43

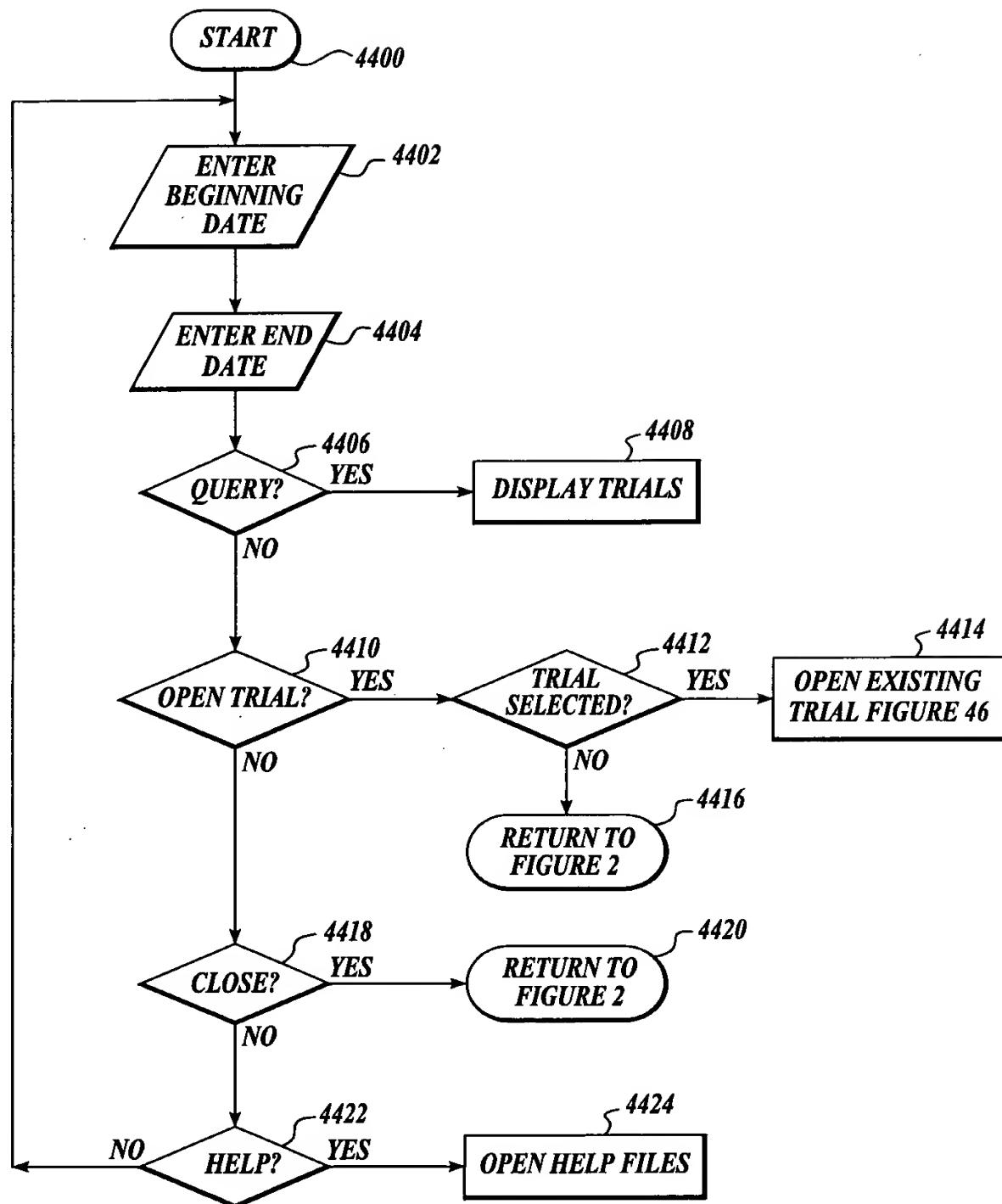


Fig. 44

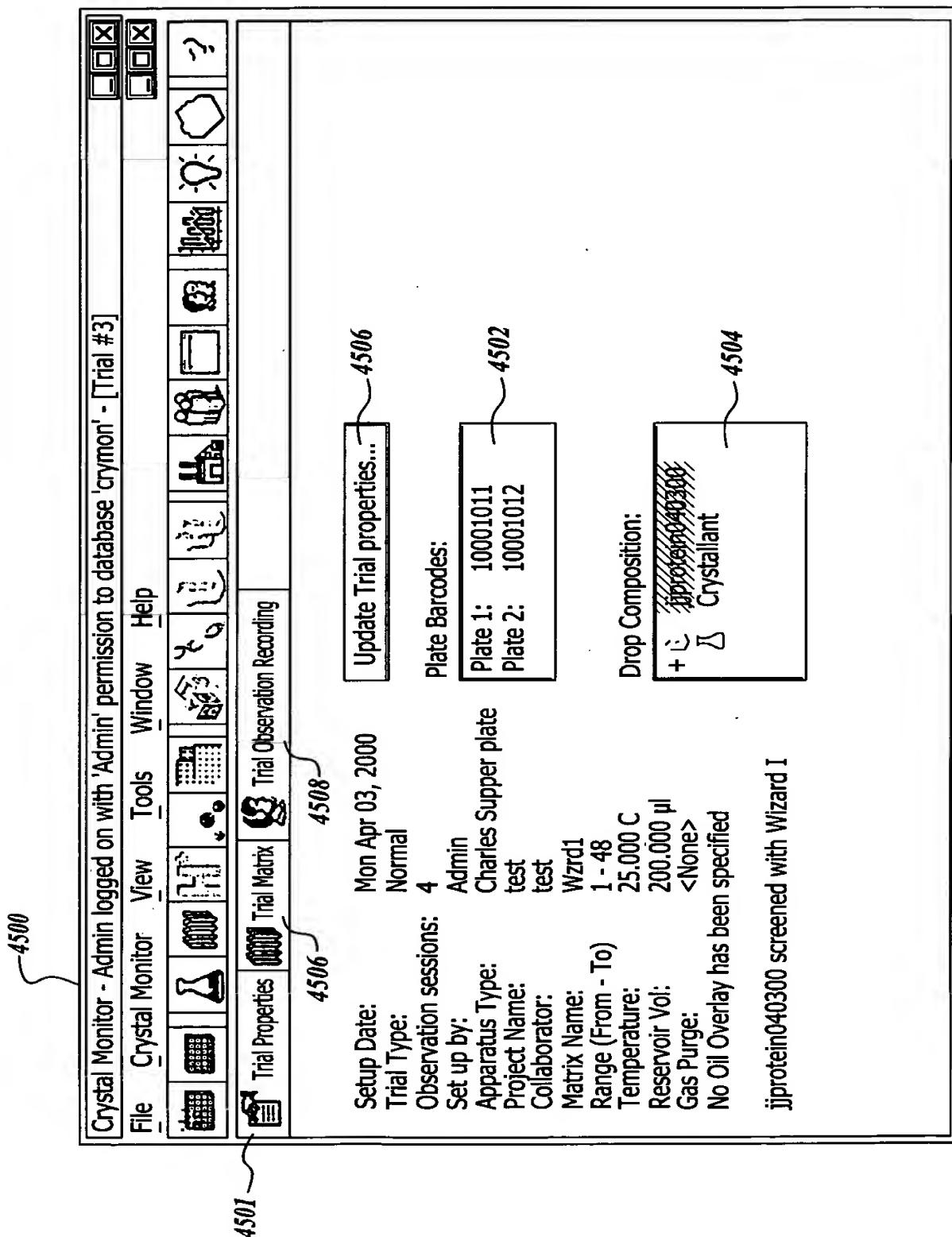


Fig. 45

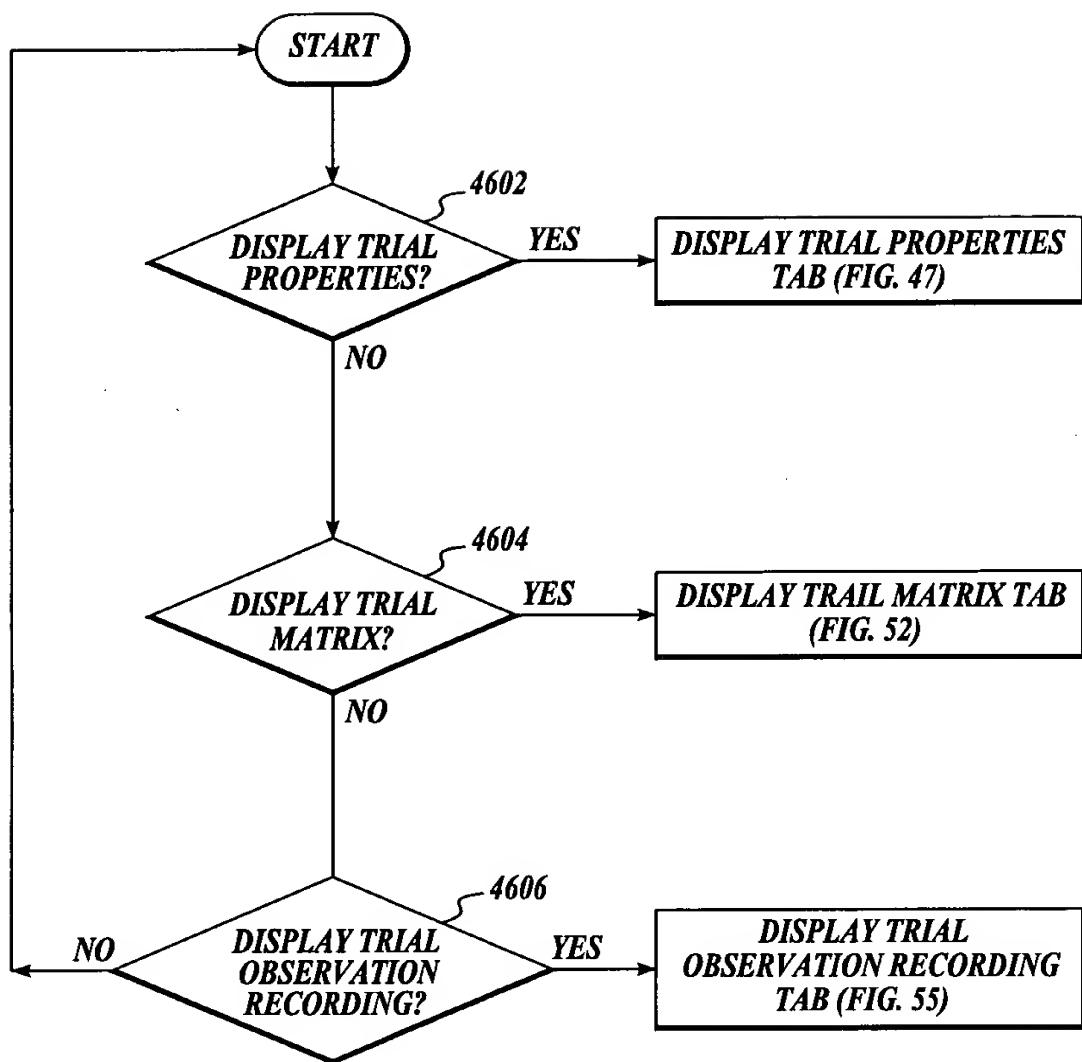


Fig. 46

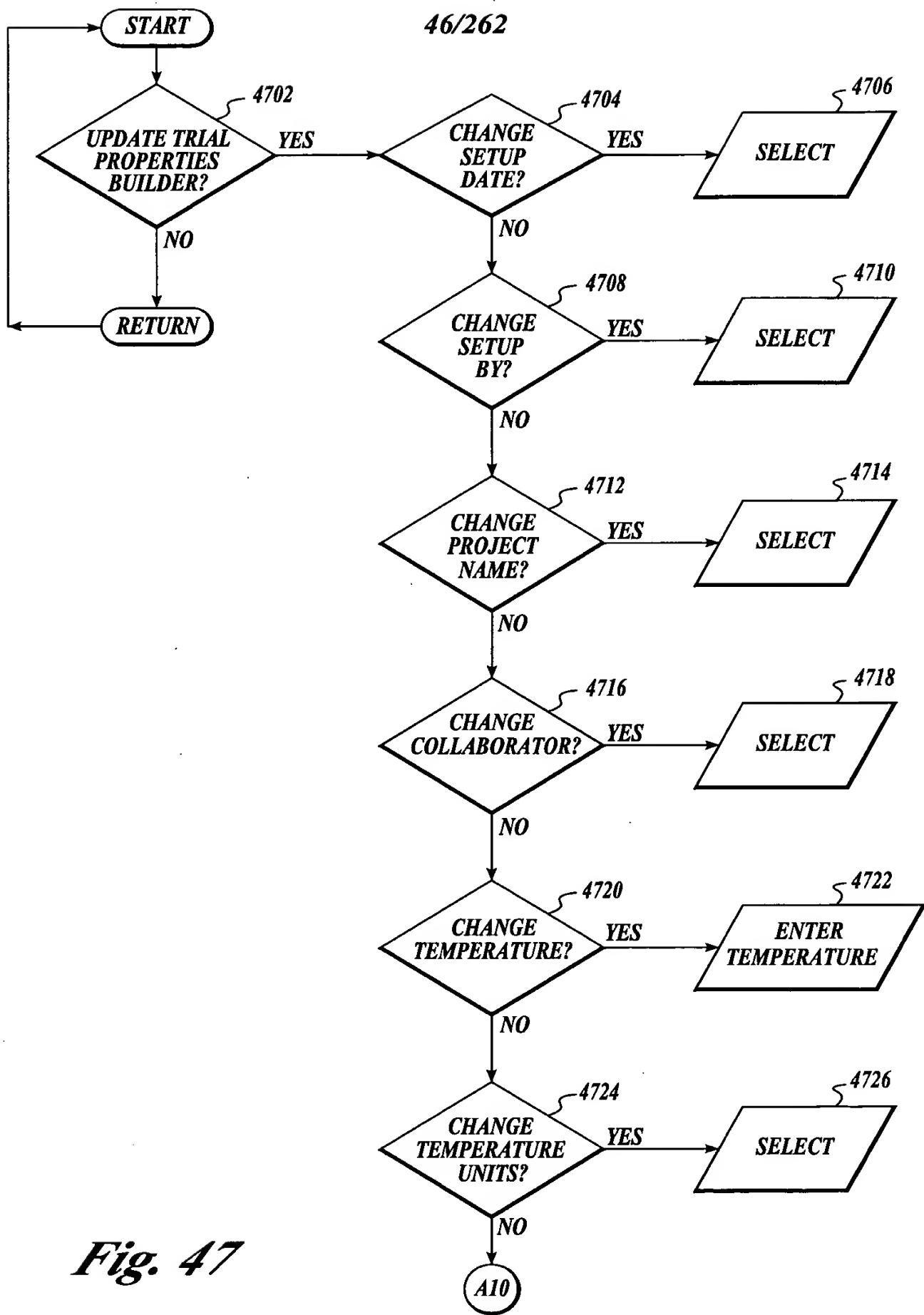


Fig. 47

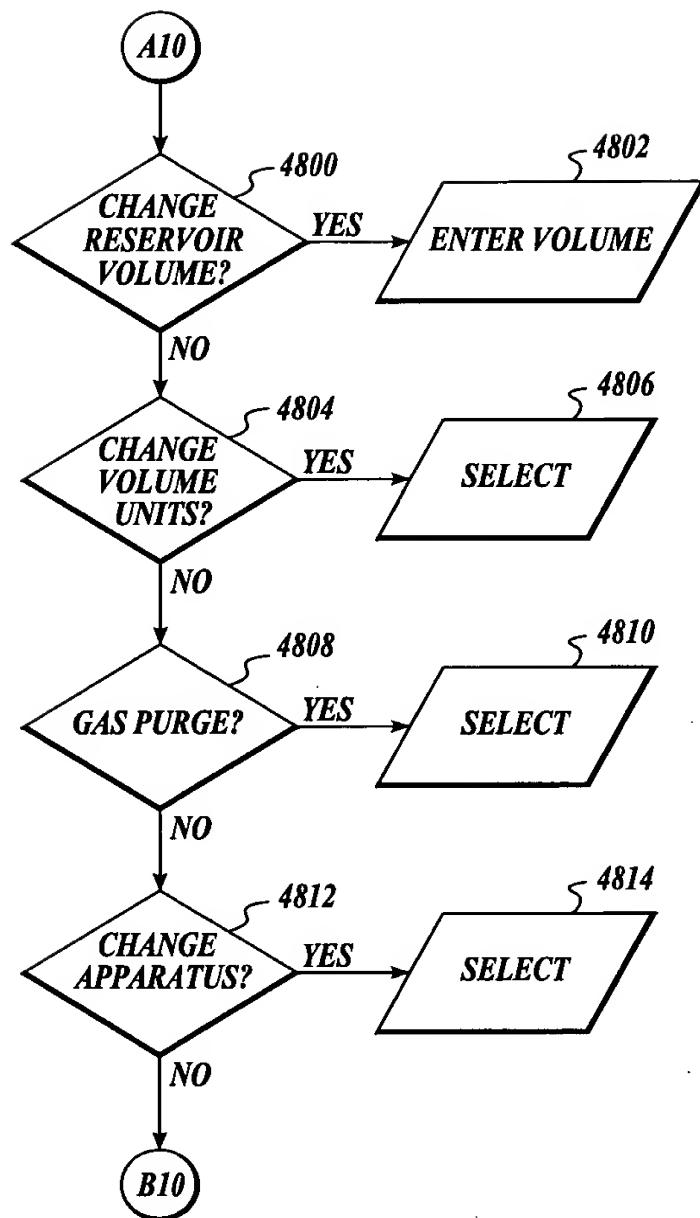


Fig. 48

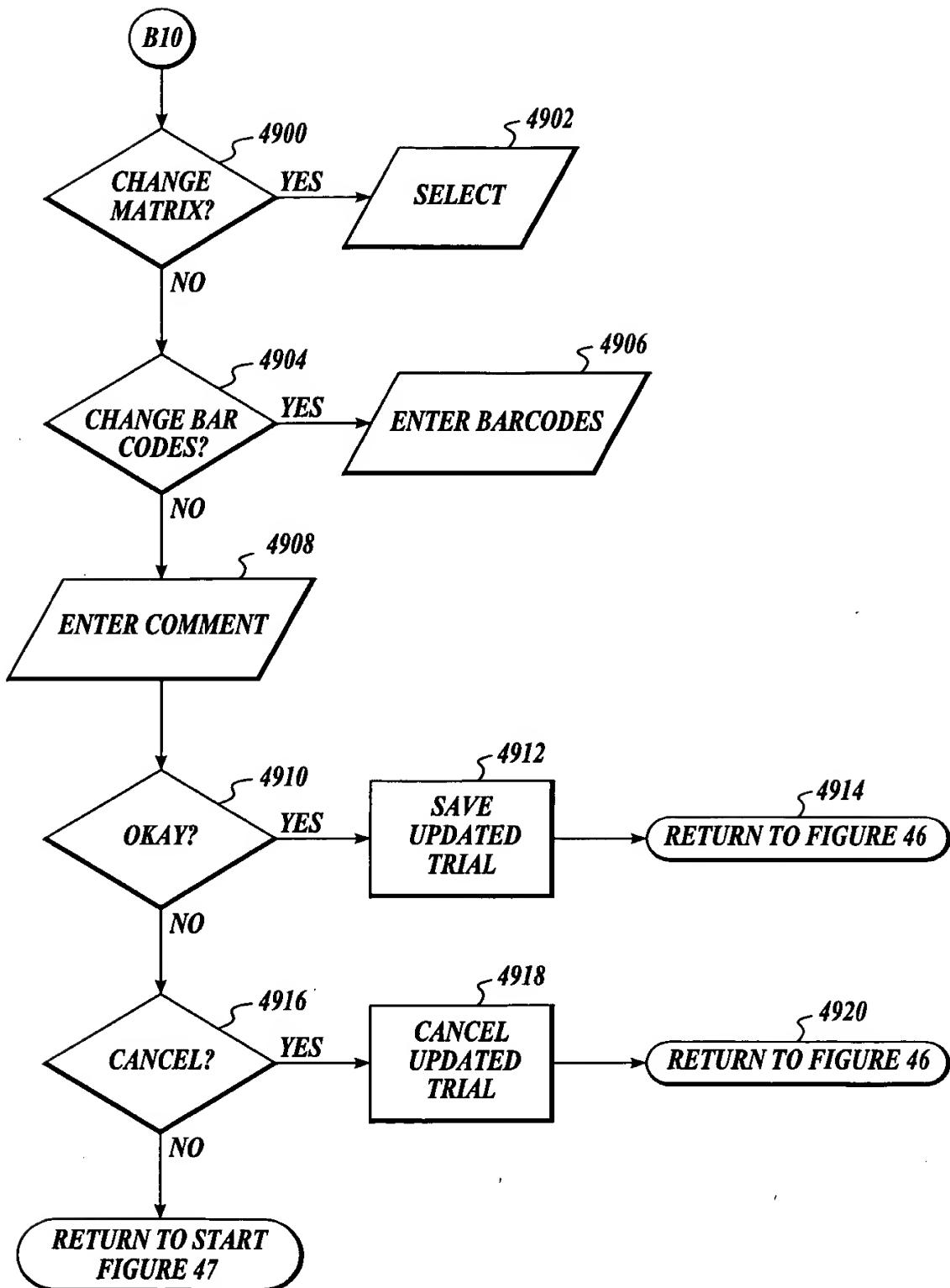


Fig. 49

5000

Crystal Monitor - Admin logged on with 'Admin' permission to database 'cronym' - [Trial #3]

File Crystal Monitor View Tools Window Help



Trial Properties Trial Matrix Trial Observation Recording

	pH 9.50	pH 7.50	pH 9.50	pH 8.00	pH 10.50	pH 5.50
	pH 6.00	pH 5.50	pH 4.50	pH 7.00	pH 6.00	pH 8.00

5002 -Well 8-
pH 6.00 pH 6 100.00mM (Na3 citrate, citric acid) pH 5.50
pH 6.00 pH 8 2000.00 Mm (NH4)2 sulfate, Precipitant (Sigma Chemical Co. A2939)

Chemicals:
Crystallization Drop:

pH 6.50 pH 9 2.000 μ l Crystallant

pH 6.50 pH 6 2.000 μ l Crystallant

Solution Properties:
Final pH: 5.50 est.

Conductivity: n/a
Vapor Pressure Osmolality: n/a

5004 Viscosity: Low
Solvent: H2O

Matrix Name:
Wzrd1

Matrix Type:
Random

Commercial:

ard Crystal Growth Matrix
se matrix of crystallants

49/262

Fig. 50

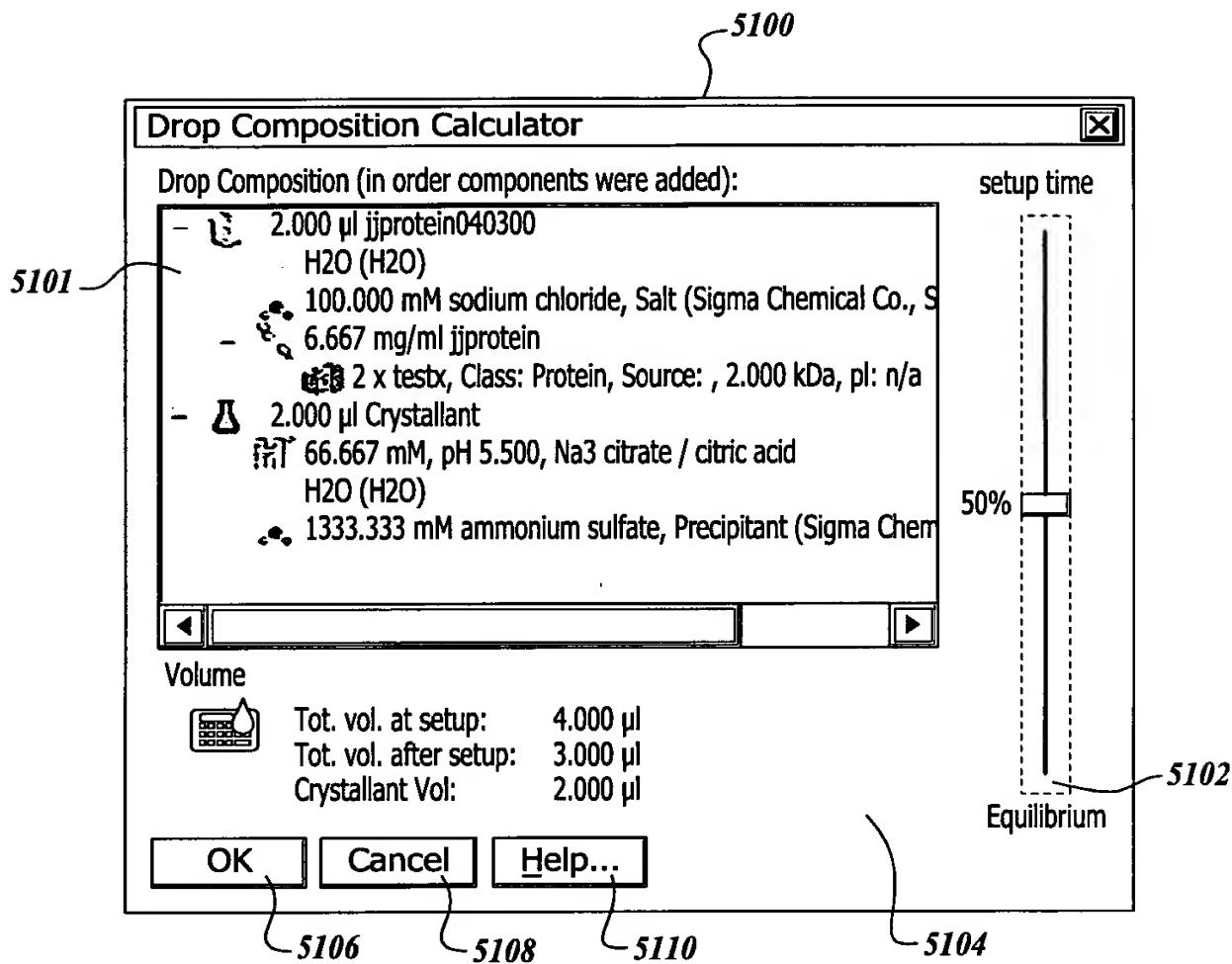


Fig. 51

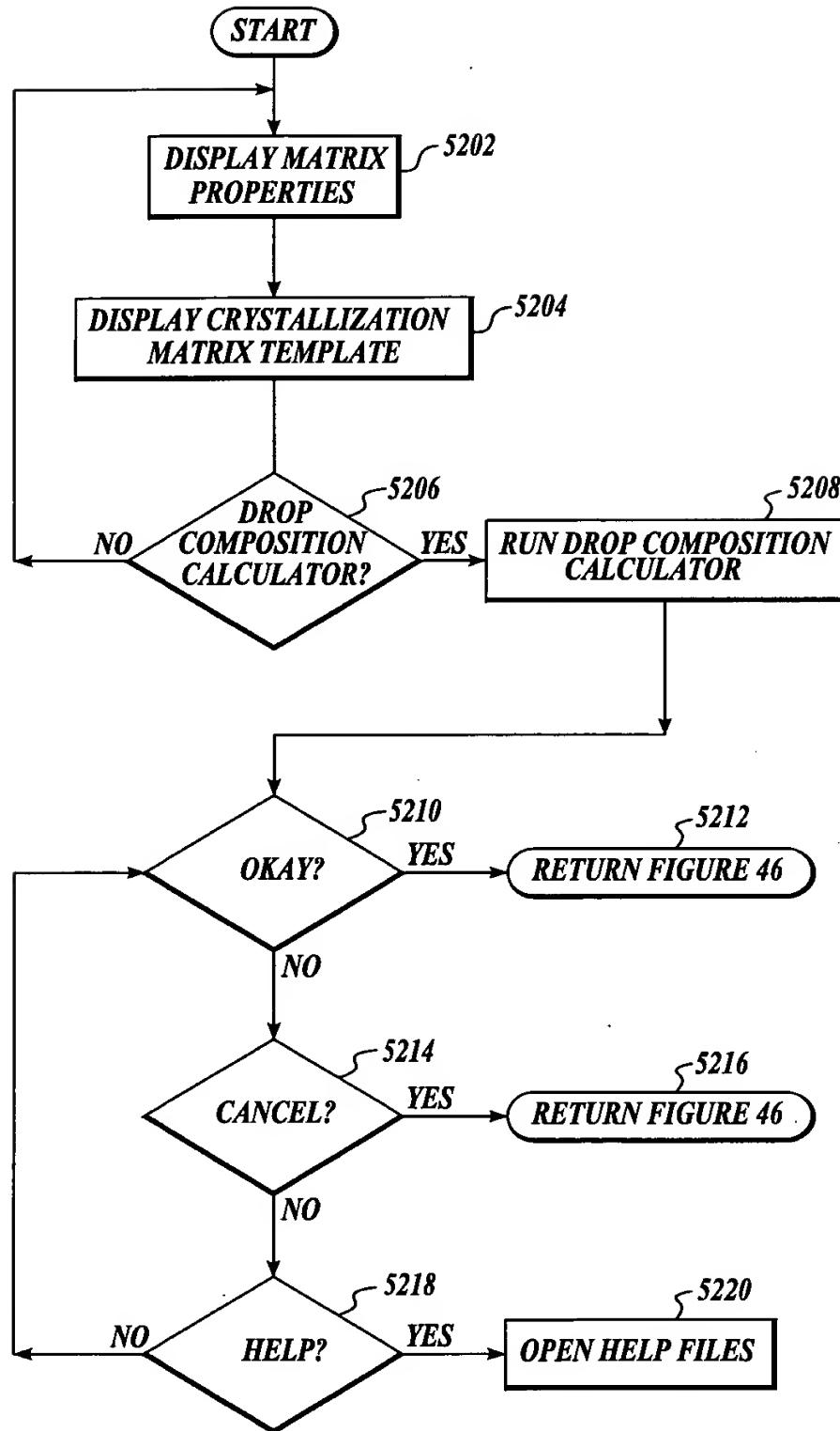


Fig. 52

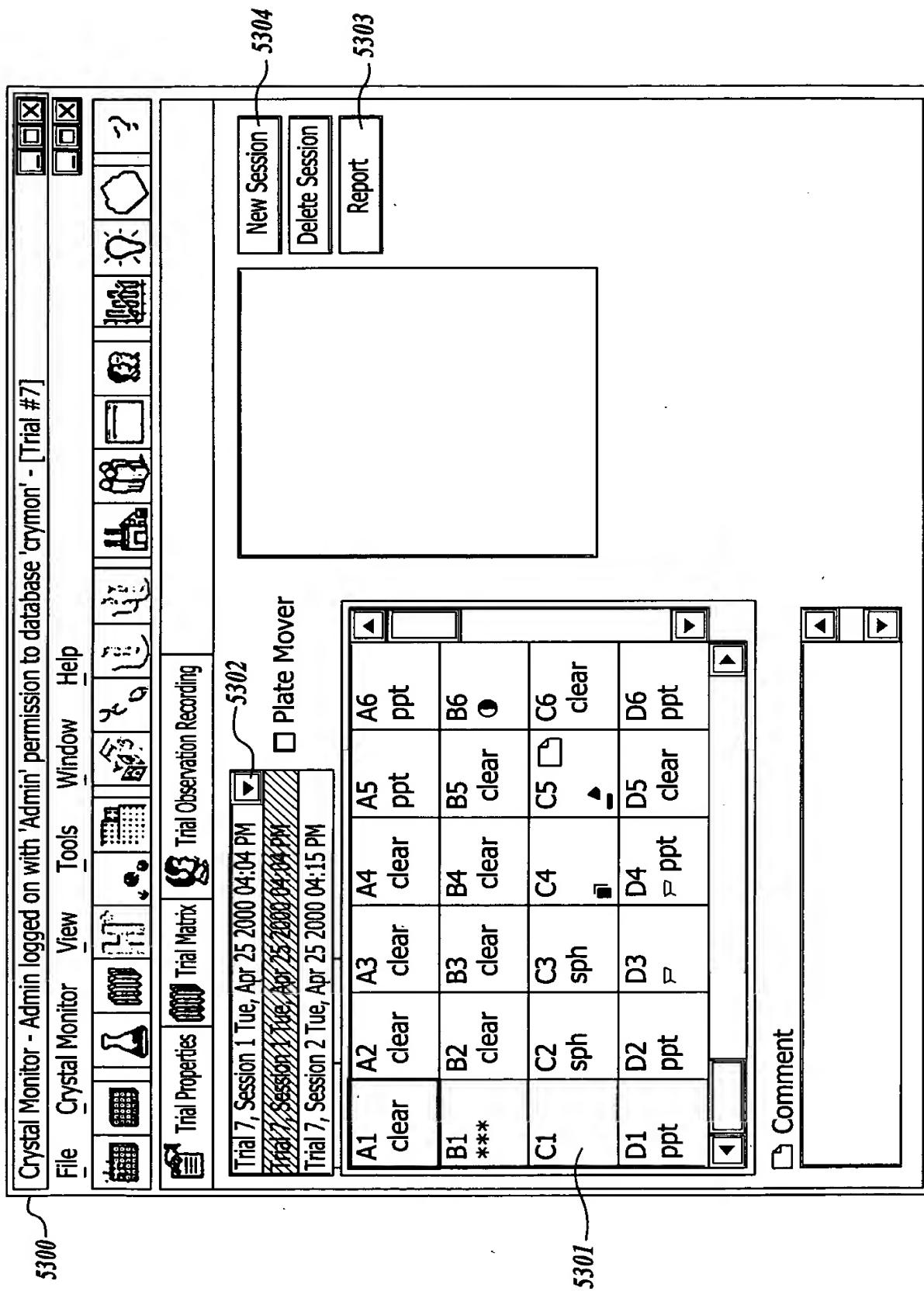


Fig. 53

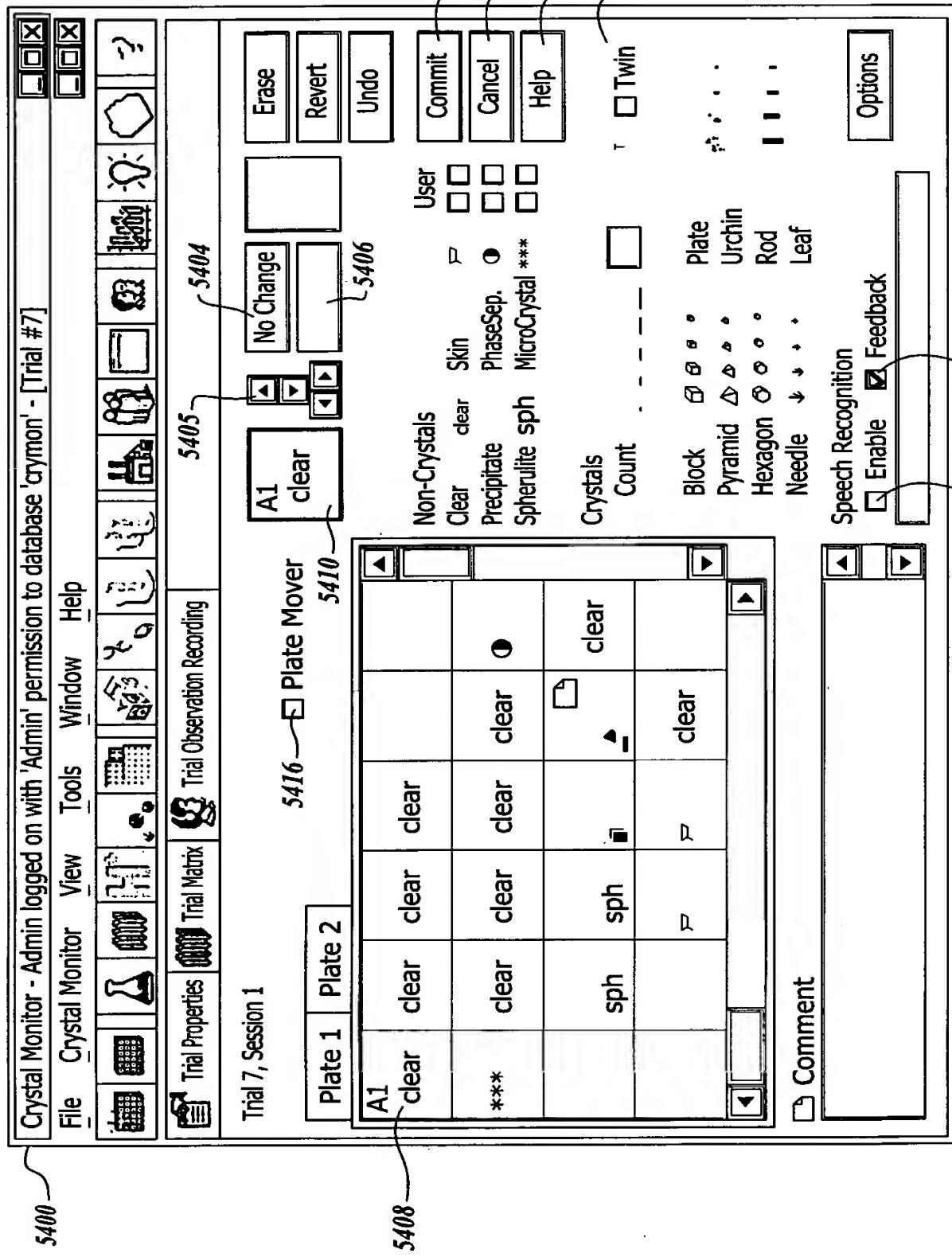


Fig. 54 ~ 5402 ~ 5404

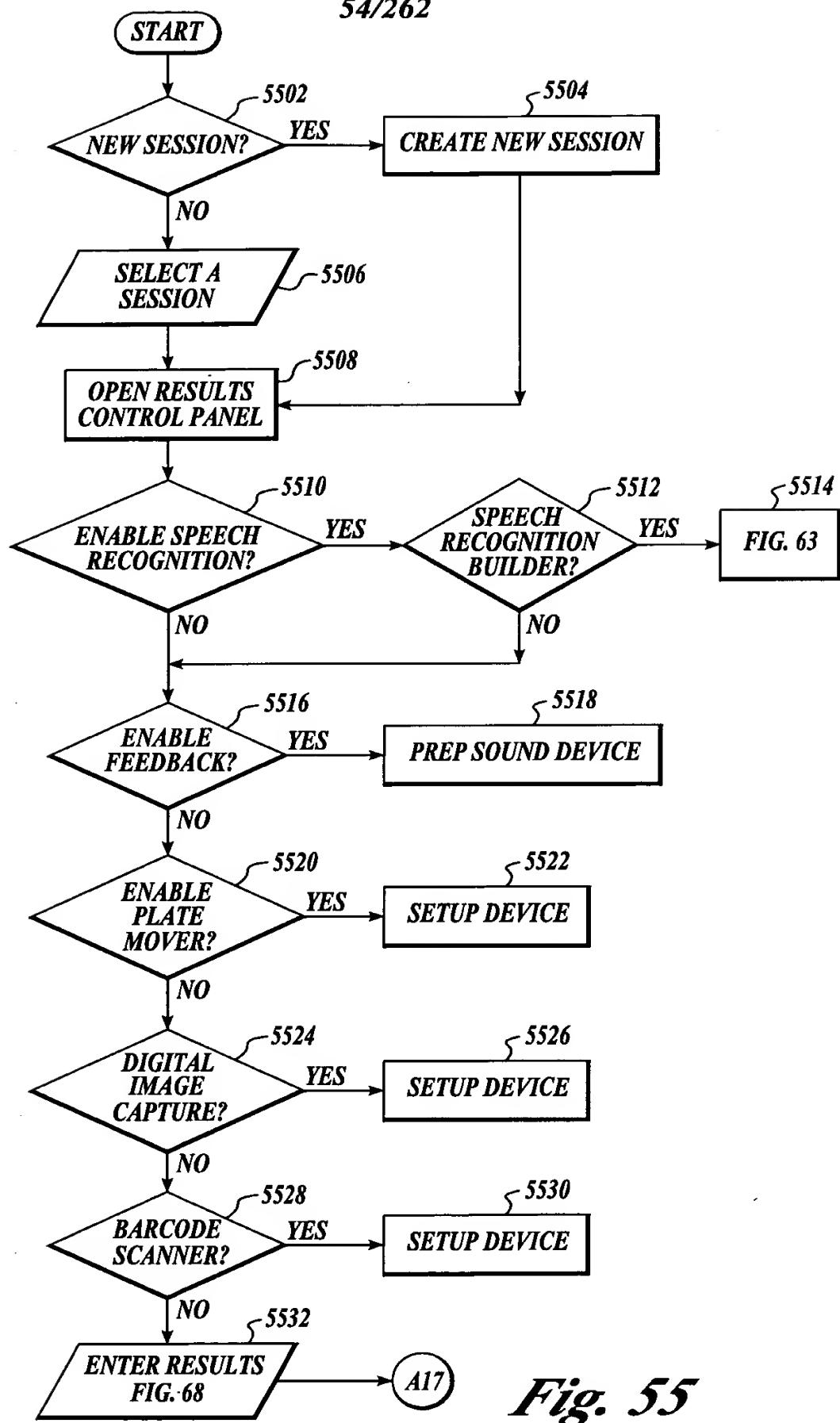


Fig. 55

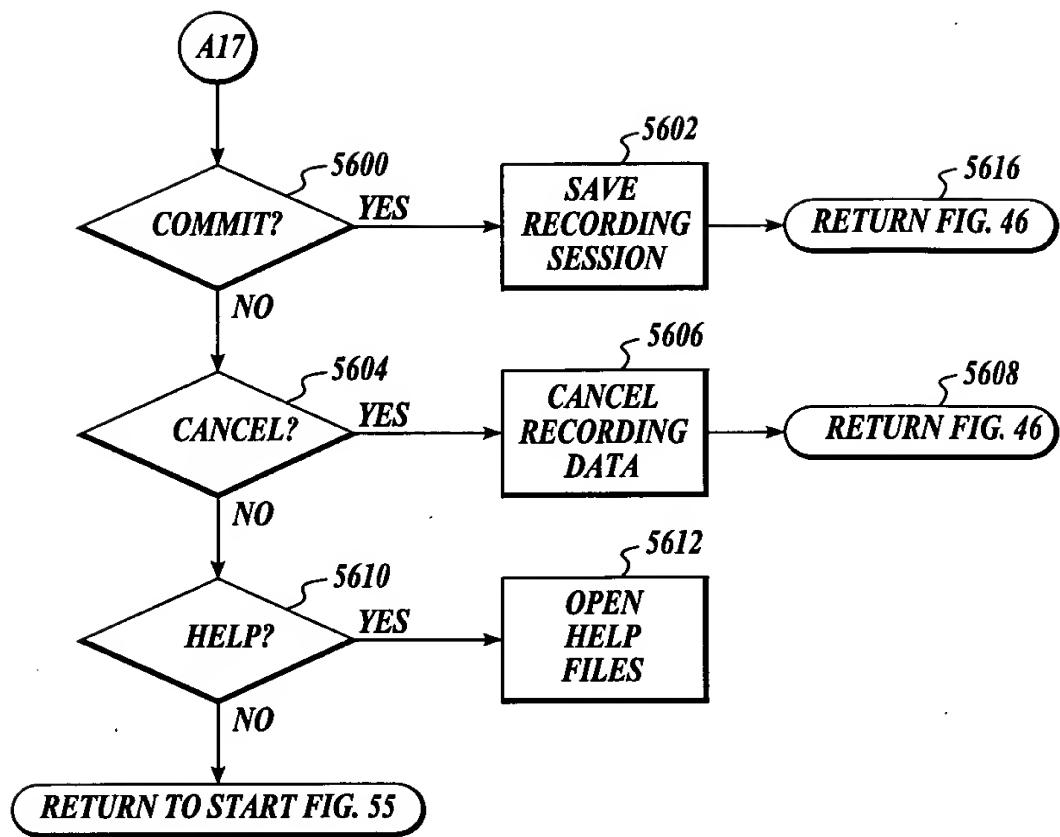
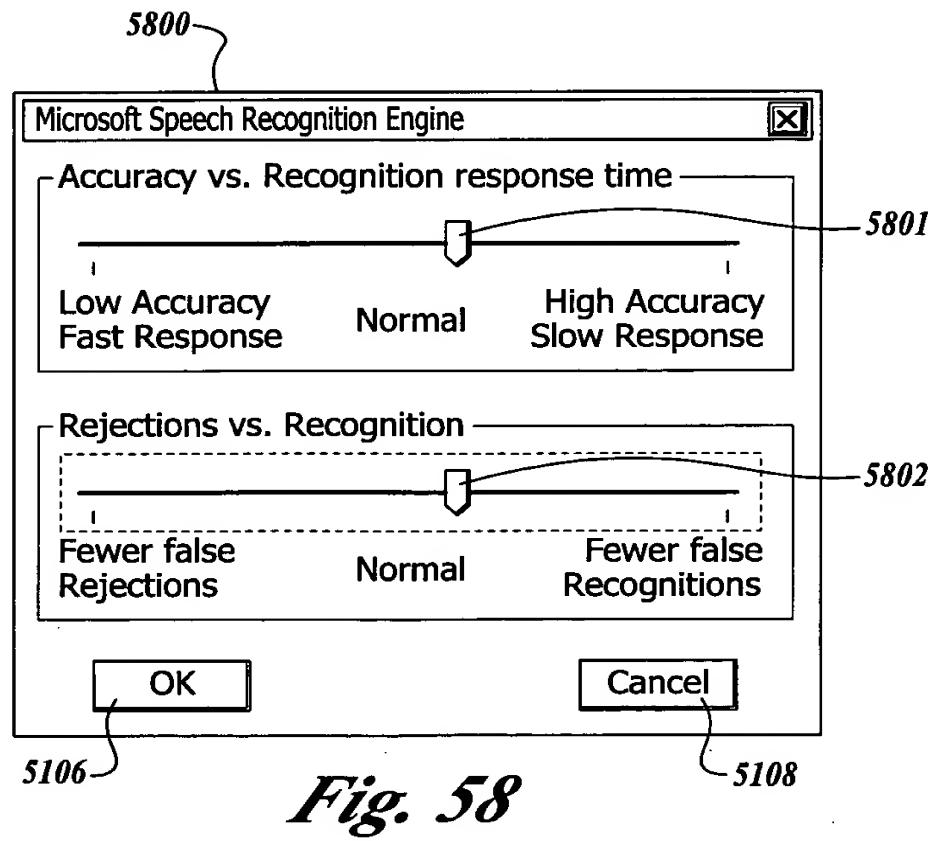
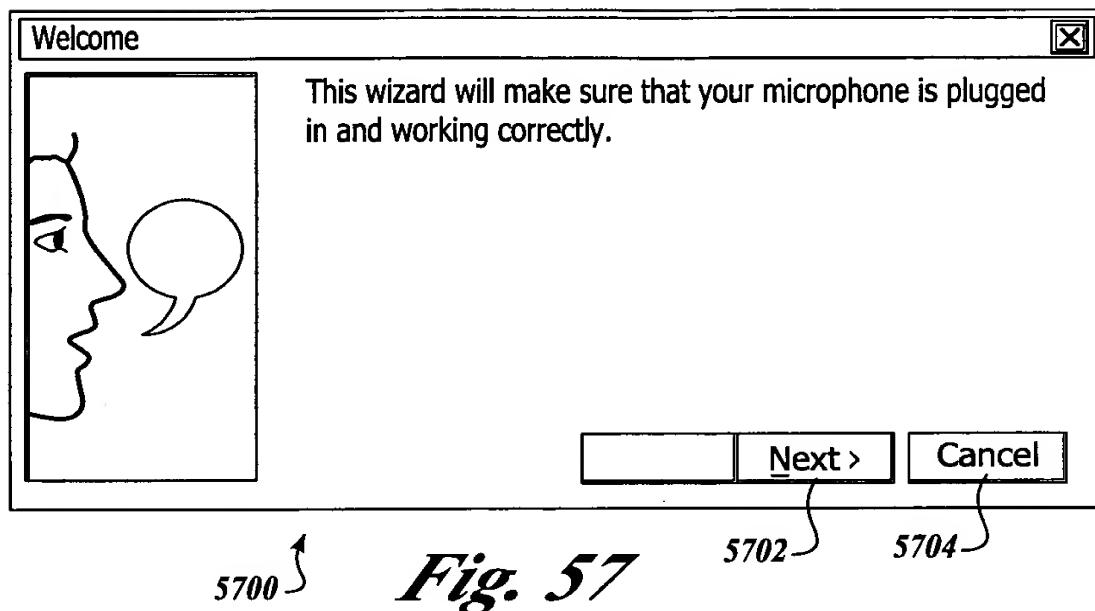


Fig. 56



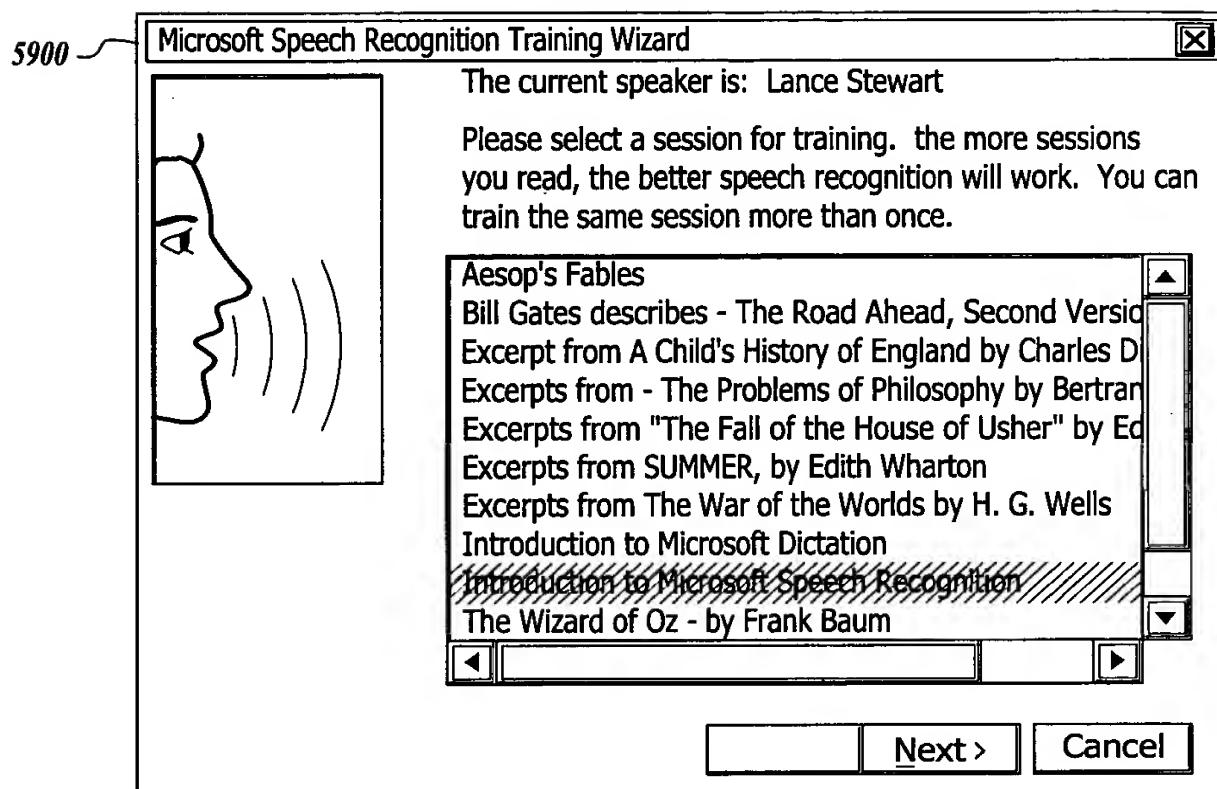


Fig. 59

6001 6000 6002 6004

Name	Voice Command	Feedback
<Next>	Next	IDR_WAVE_VCMDNEXT
<Back>	Back	IDR_WAVE_VCMDBACK
<Up>	Well Up	Well Up
<Down>	Well Down	Well Down
<Left>	Well Left	Well Left
<Right>	Well Right	Well Right
<Clear>	Clear	IDR_WAVE_VCMDCLEAR
<Precipitate>	Precipitate	Precipitate
<Spherulite>	Spherulite	Spherulite
<Skin>	Skin	Skin
<PhaseSeparation>	PhaseSeparation	PhaseSeparation
<MicroCrystal>	MicroCrystal	MicroCrystal
<Block>	Block	Block
<BlockBig>	Big Block	Big Block
<BlockMedium>	Medium Block	Medium Block
<BlockSmall>	Small Block	Small Block
<BlockTiny>	Tiny Block	Tiny Block

Fig. 60

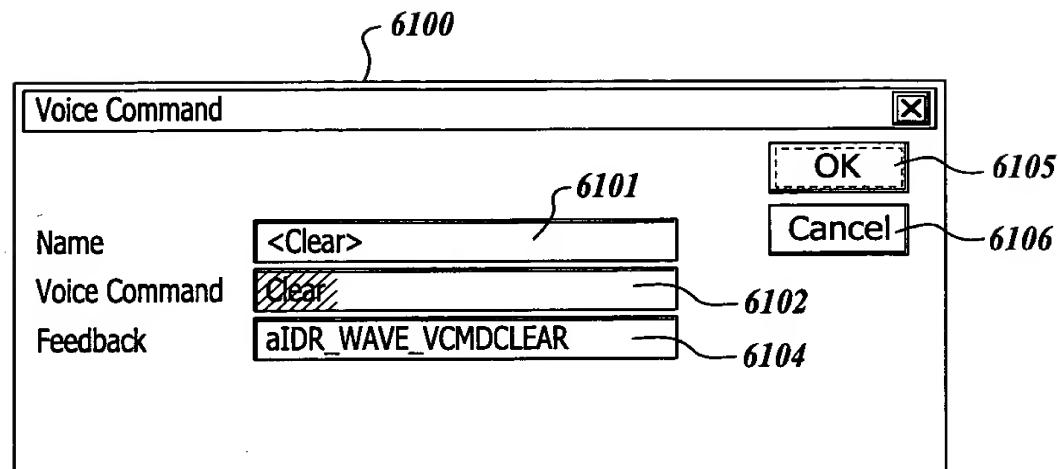


Fig. 61

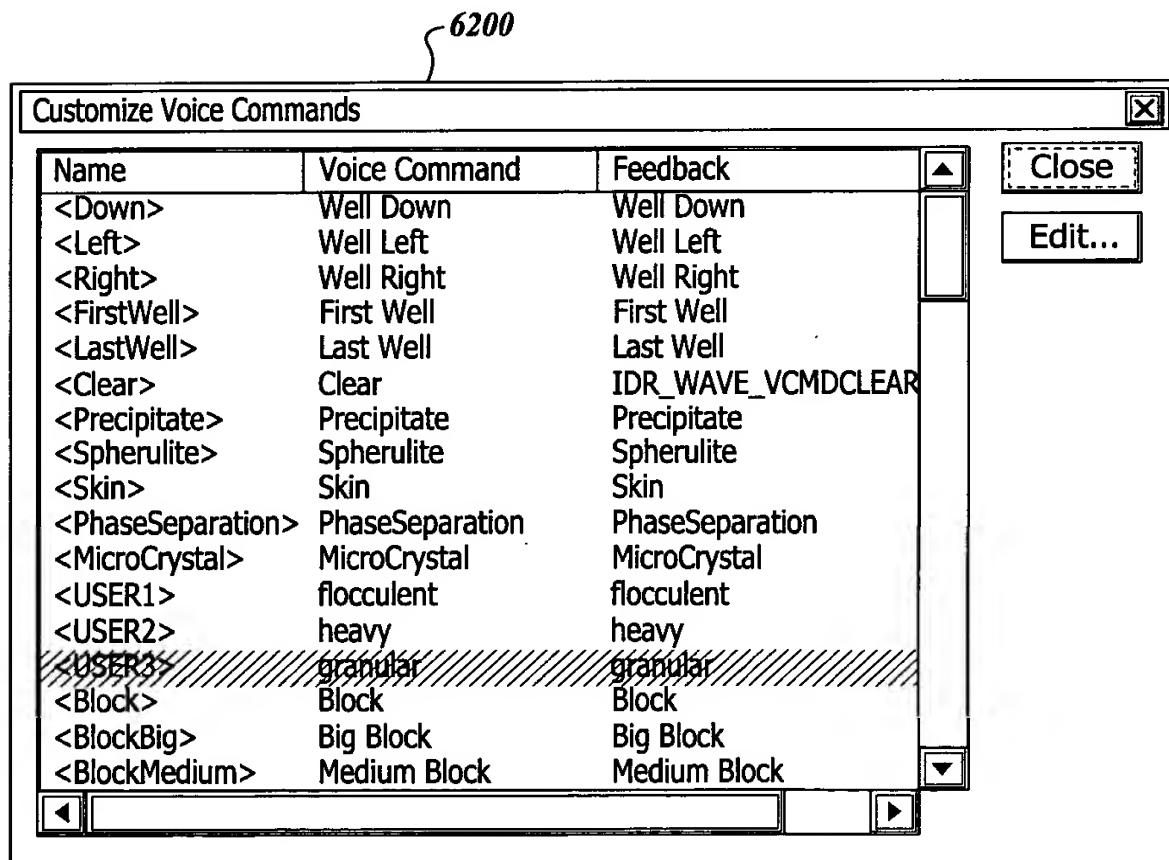


Fig. 62

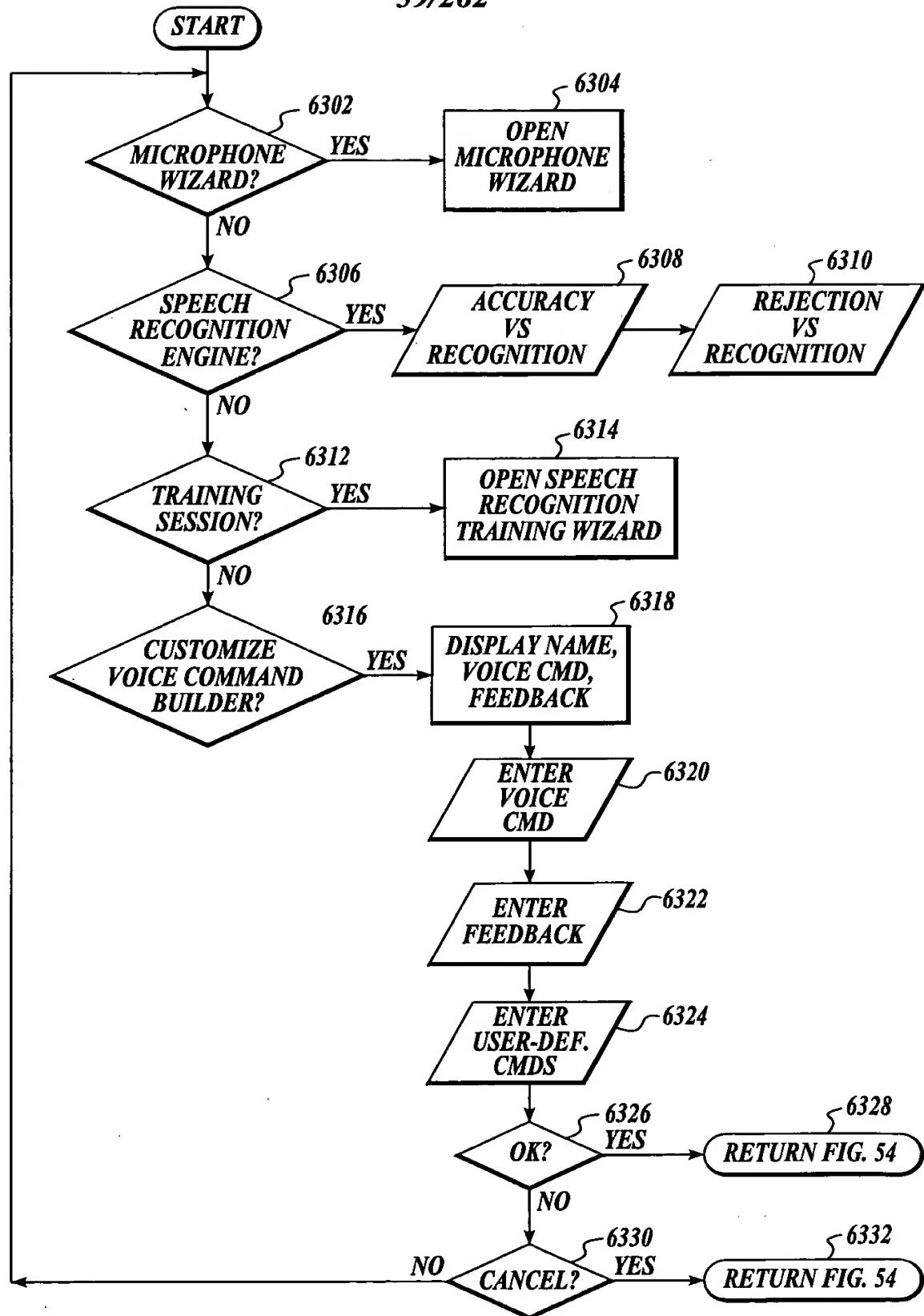


Fig. 63

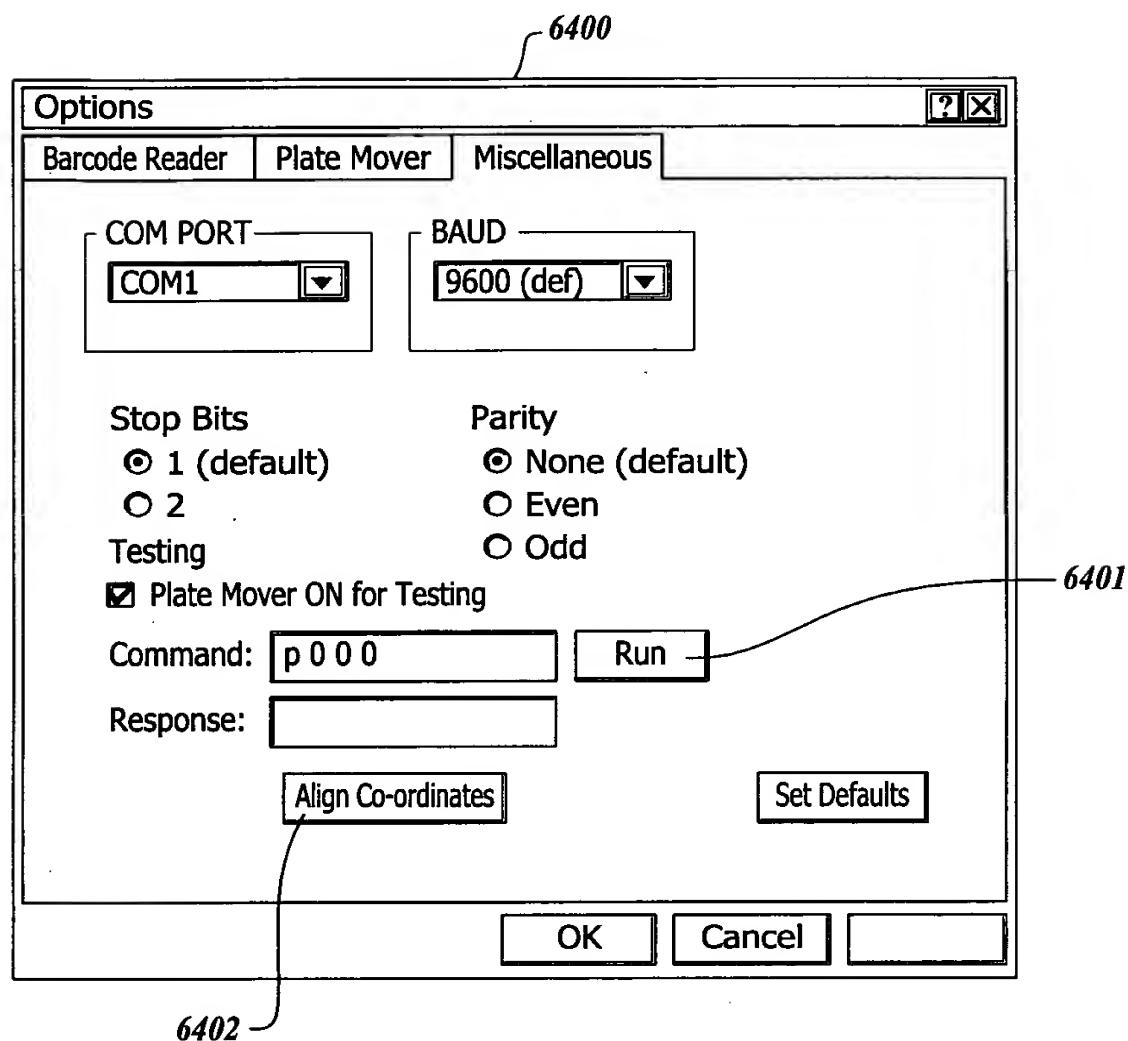
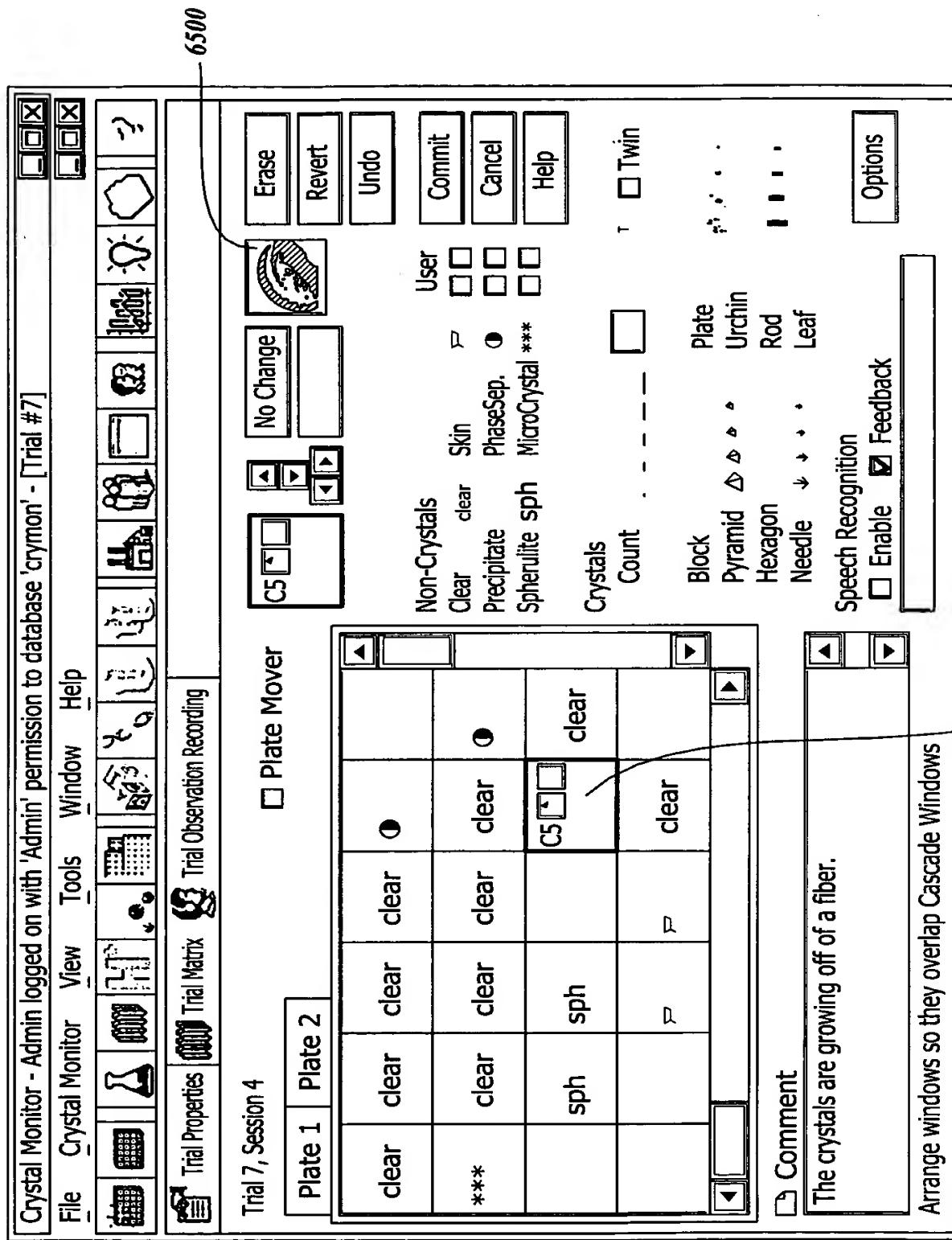


Fig. 64



6502 Fig. 65

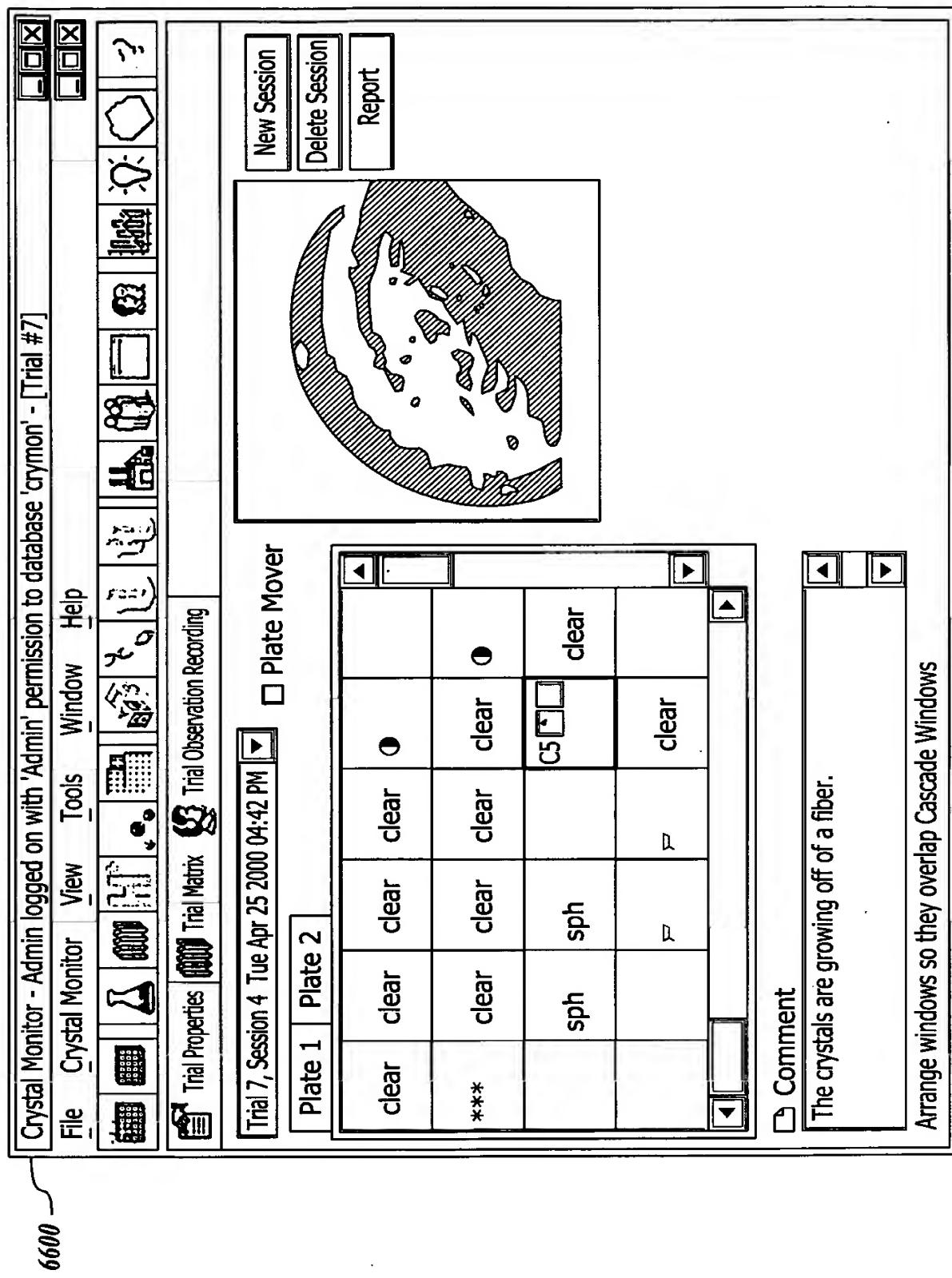


Fig. 66

6700

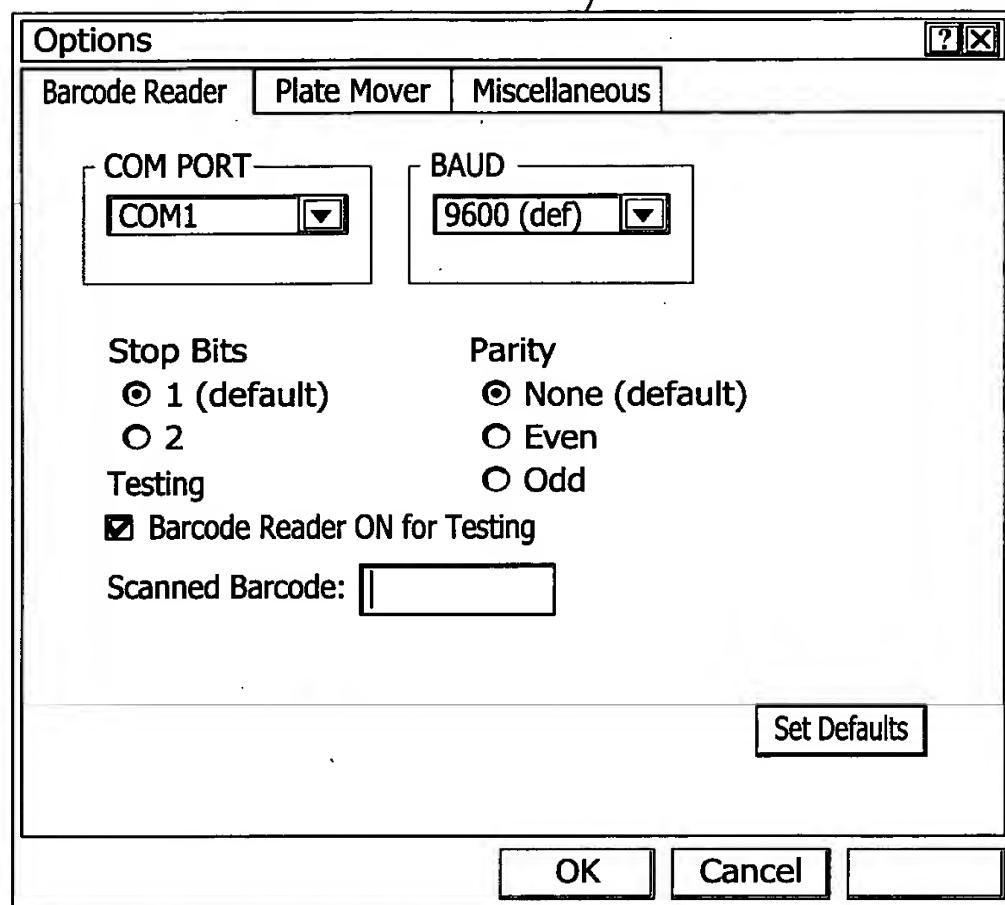


Fig. 67

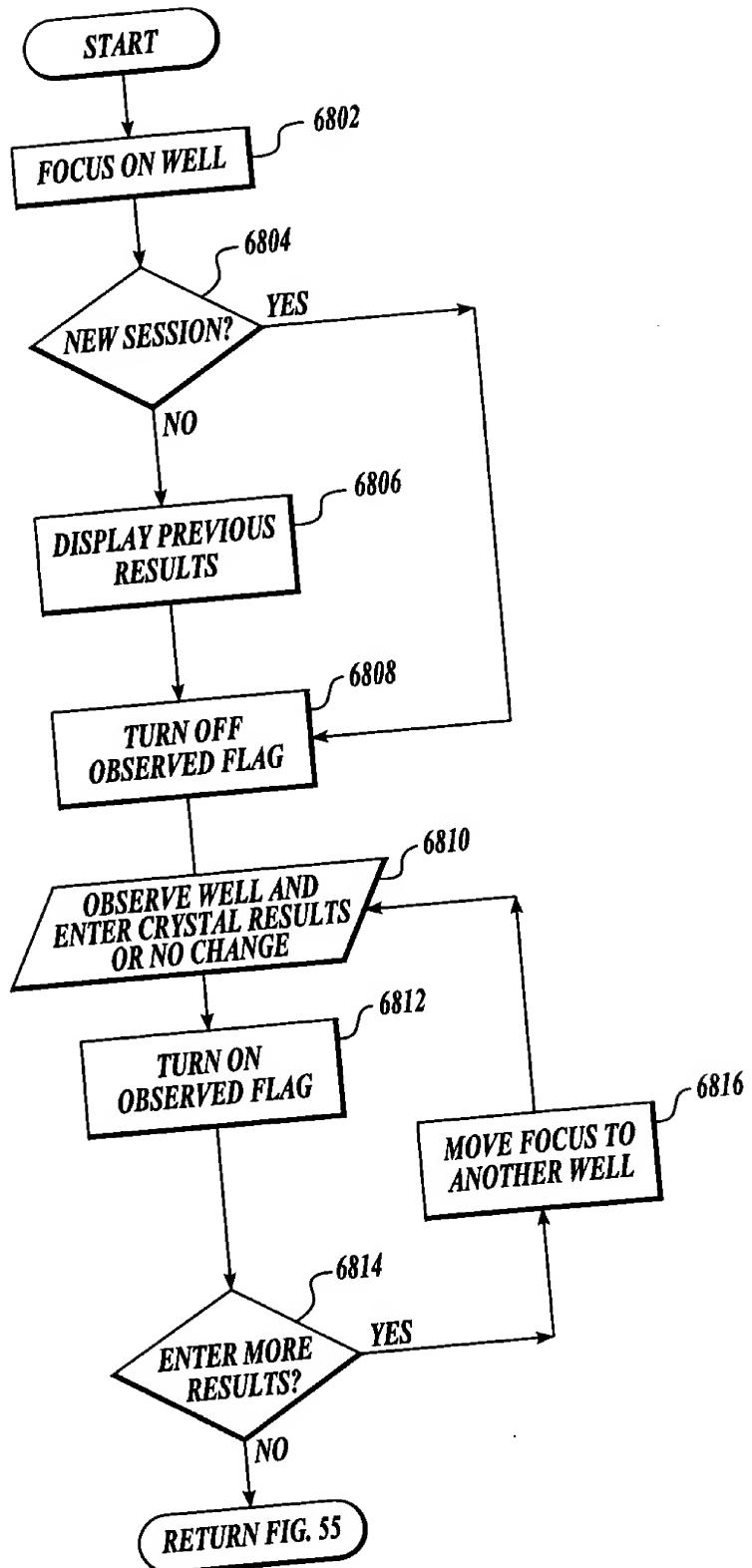


Fig. 68

A1 clear	A2 clear	A3 clear	A4 clear	A5 ● pp+	A6 pp+
B1 ***	B2 clear	B3 clear	B4 clear	B5 clear	B6 ●
C1 △	C2 sph	C3 sph	C4 □	C5 □ □	C6 clear
D1 pp+	D2 pp+	D3 ◤	D4 ◤ pp+	D5 clear	D6 pp+

Fig. 69

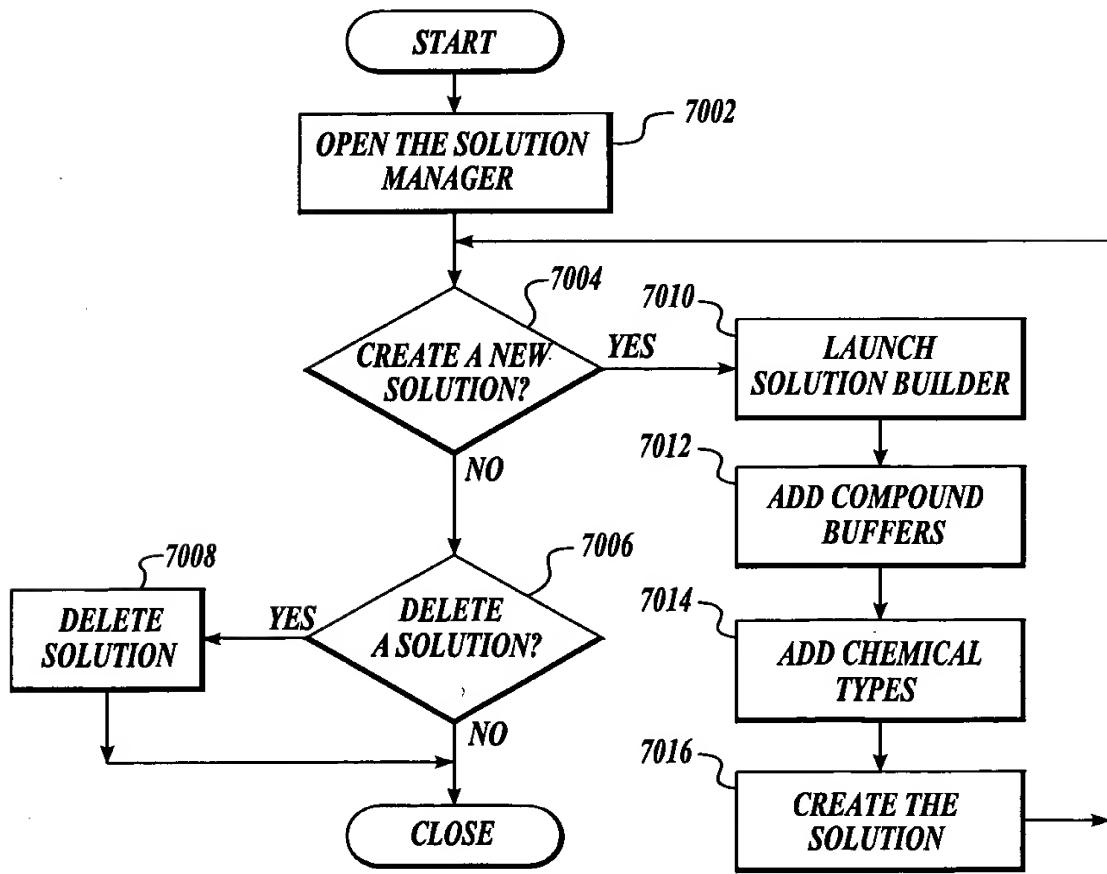


Fig. 70

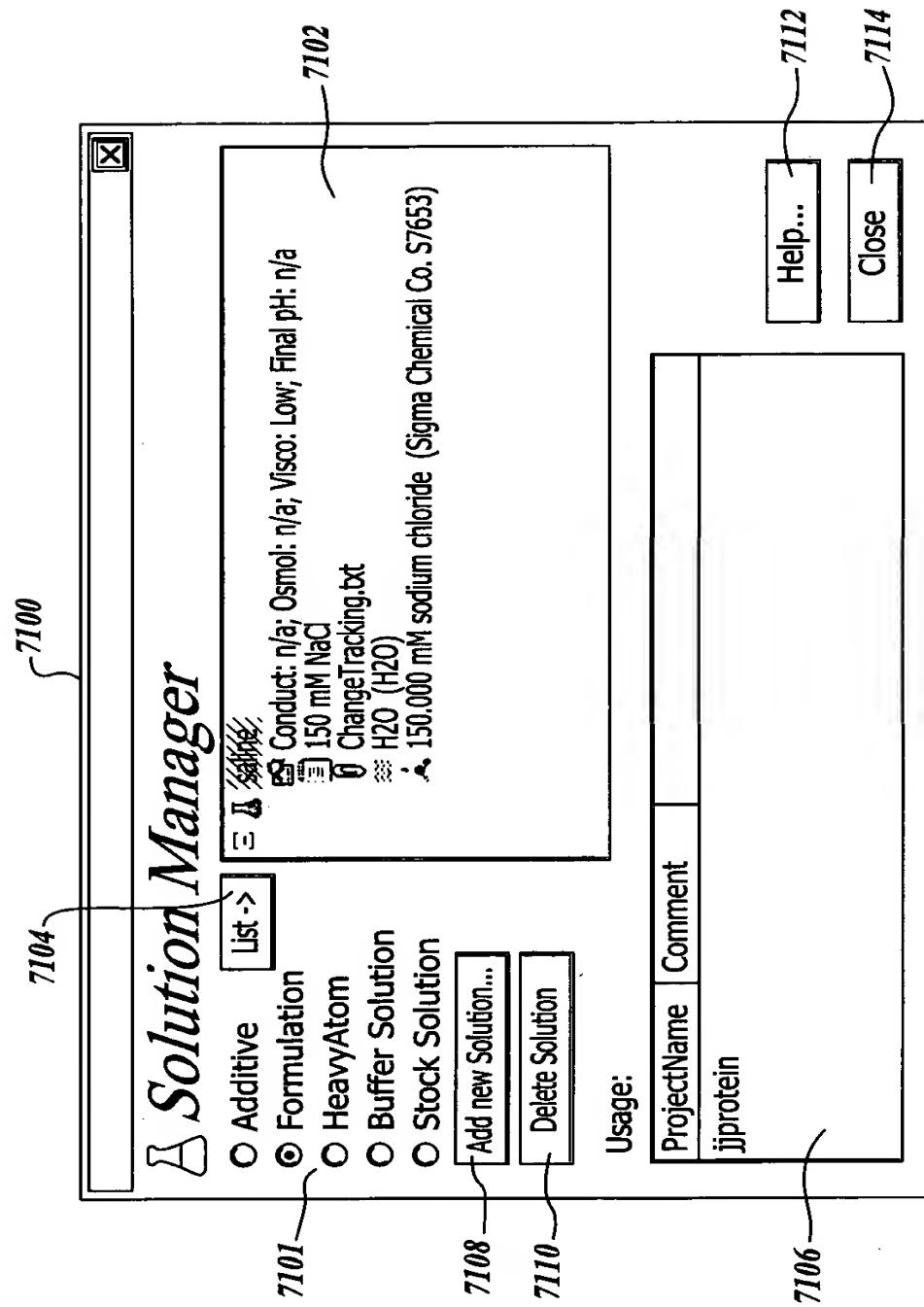


Fig. 71

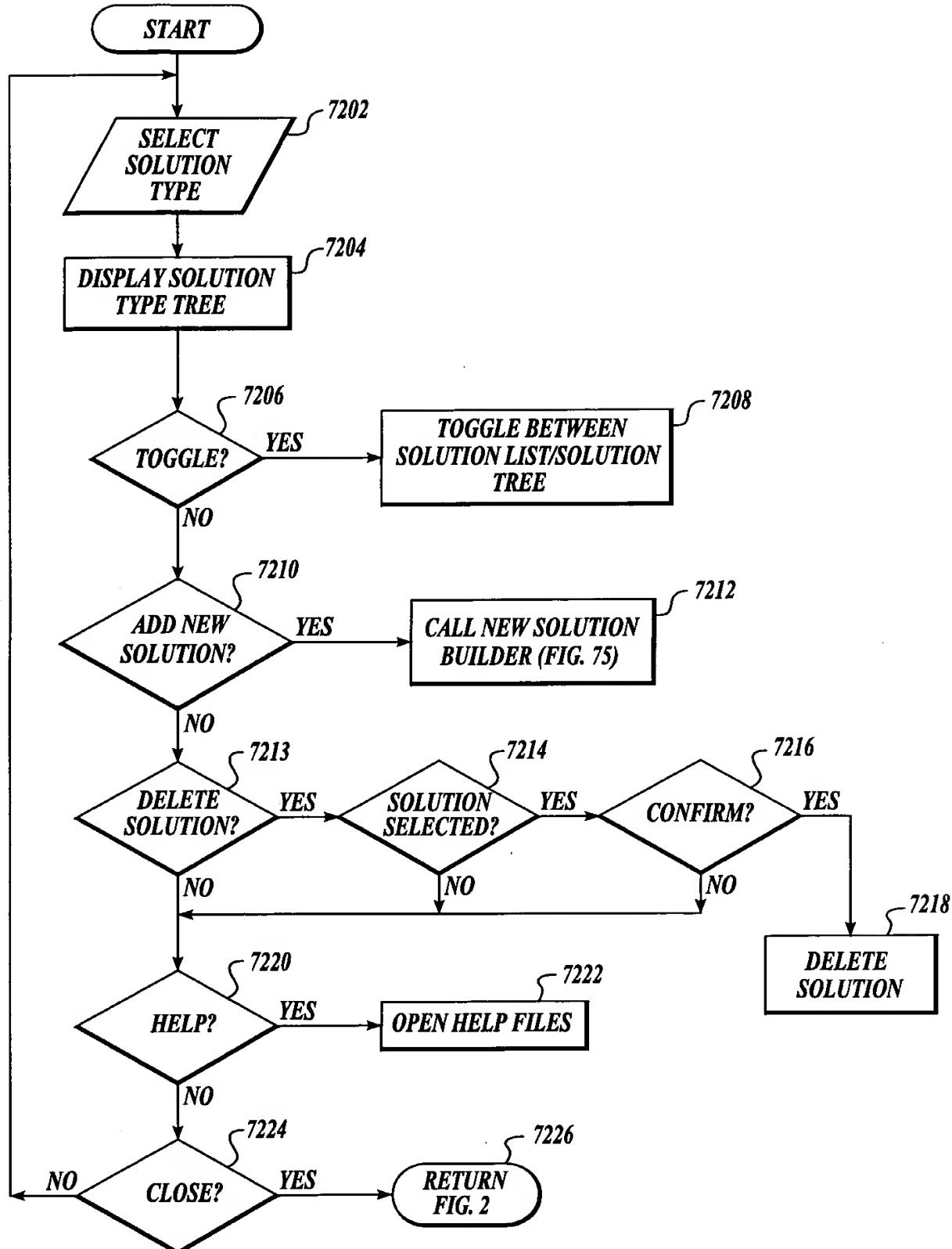


Fig. 72

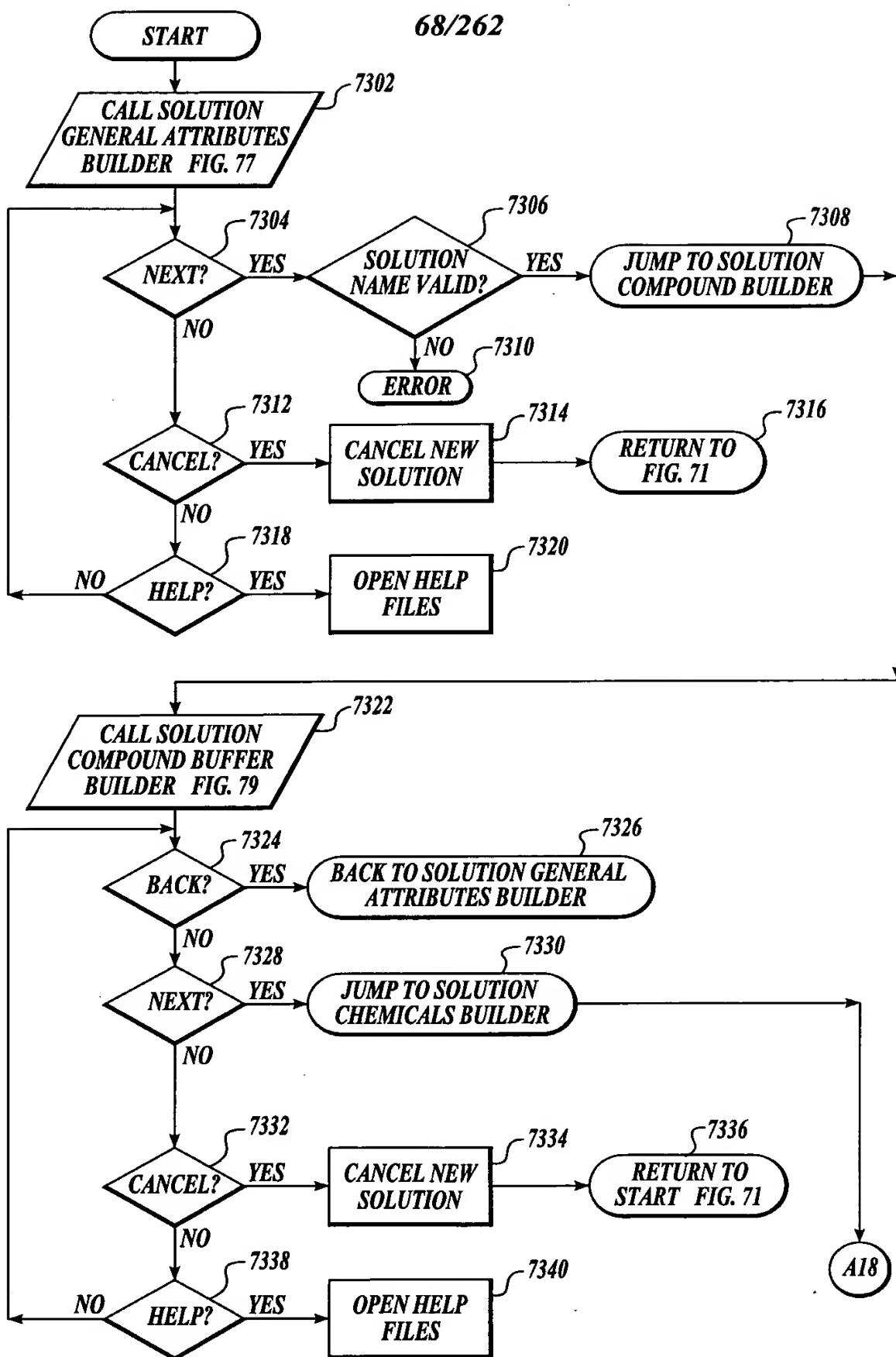


Fig. 73

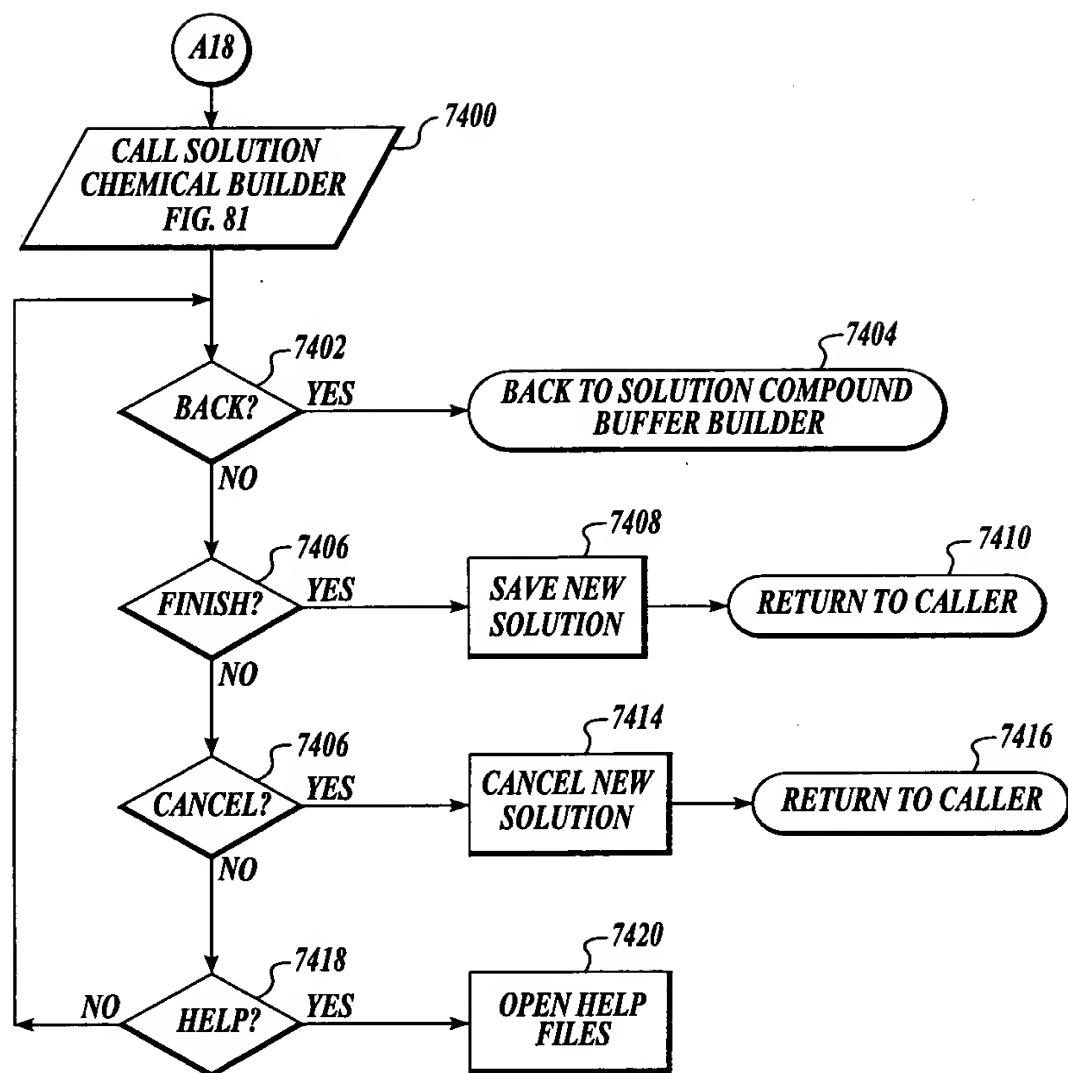


Fig. 74

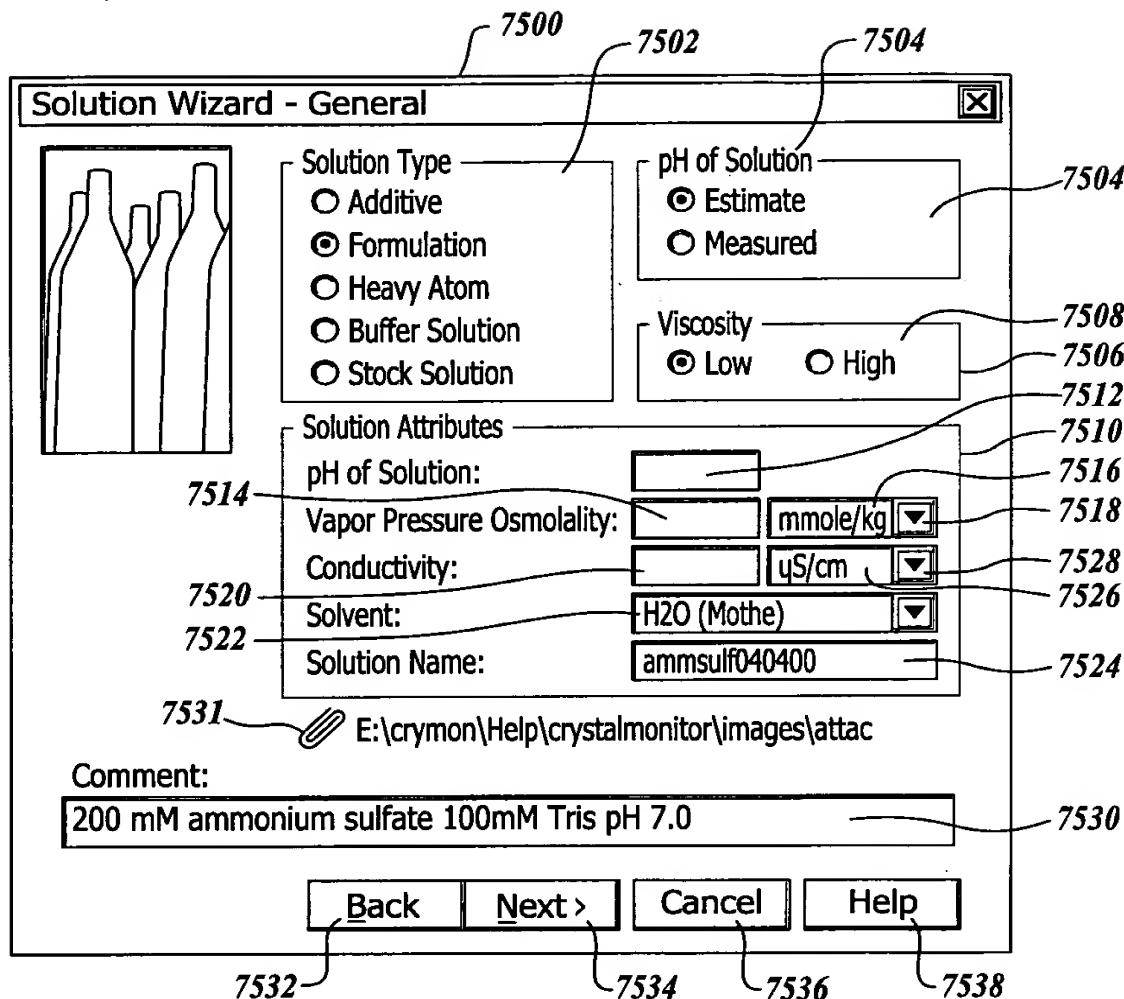


Fig. 75

7600

The screenshot shows a Microsoft Excel window titled "Microsoft Excel - attachmentexample". The formula bar displays the formula: $=R[-4]C*(R[-2]C/1000)*(R[-3]C/1000)$. The spreadsheet contains the following data:

	1	2	3	4	5	6
1	ammonium sulfate storage solution					
2						
3	molecular weight	132				
4	total volume (ml)	1000				
5	concentration (mM)	200				
6						
7	amount to use (g)	26.4				
8						
9						

Below the spreadsheet, the ribbon tabs are visible: File, Edit, View, Insert, Format, Tools, Data, Window, Help. The formula bar shows the formula $=R[-4]C*(R[-2]C/1000)*(R[-3]C/1000)$. The status bar at the bottom shows "Sheet1 / Sheet2 / Sheet3".

Fig. 76

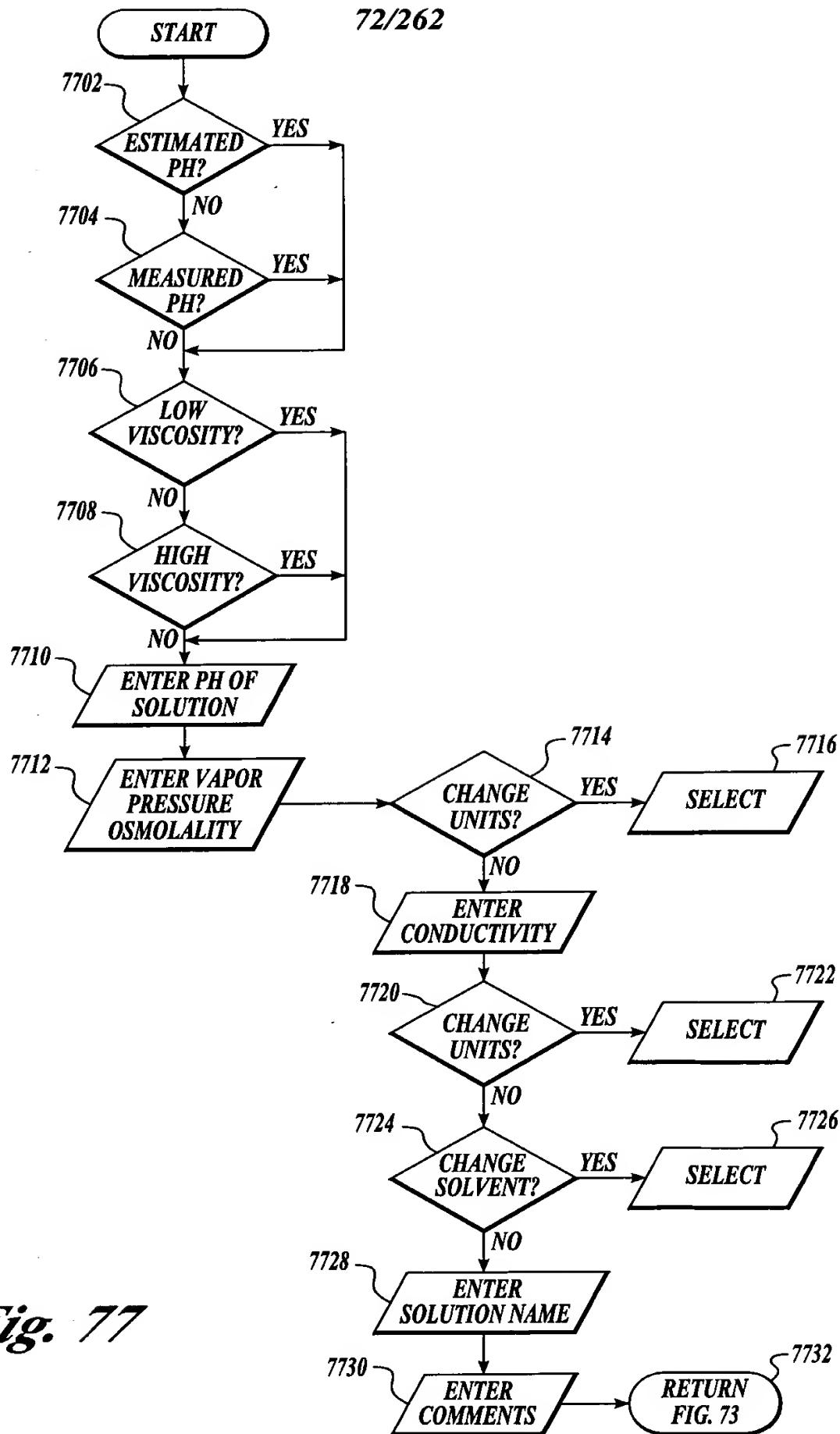


Fig. 77

Formulation: ammsulf040400

Compound Buffer Source List:

Buffer PH	Buffering Agent	pH Conjugate	Comment
6.50	sodium cacodylic acid trihydrat...	hydrochloric acid (HCl)	Na cac
6.50	2-morpholinoethanesulfonic a...	sodium hydroxide (NaOH)	MES-N
7.00	1,3-diaza-2,4-cyclopentadien...	hydrochloric acid (HCl)	imidaz
7.00	sodium cacodylic acid trihydrat...	hydrochloric acid (HCl)	Na cac
7.00	4-(2-hydroxyethyl)piperazine-1...	hydrochloric acid (HCl)	HEPES
7.00	tris(hydroxymethyl)aminometh...	hydrochloric acid (HCl)	Tris-HCl
7.50	N-(2-hydroxyethyl)piperazine-...	hydrochloric acid (HCl)	HEPES

7801

7804

7806

7802

Add

Remove

Solution Buffer List:

Buffer PH	Concentration	Buffering Agent	pH Conjugate	Comment
7.00	100.00mM	tris(hydroxymethyl)amin...	hydrochloric acid (HCl)	Tris-HCl

7810

7814

Back

Next >

Cancel

Help

Fig. 78

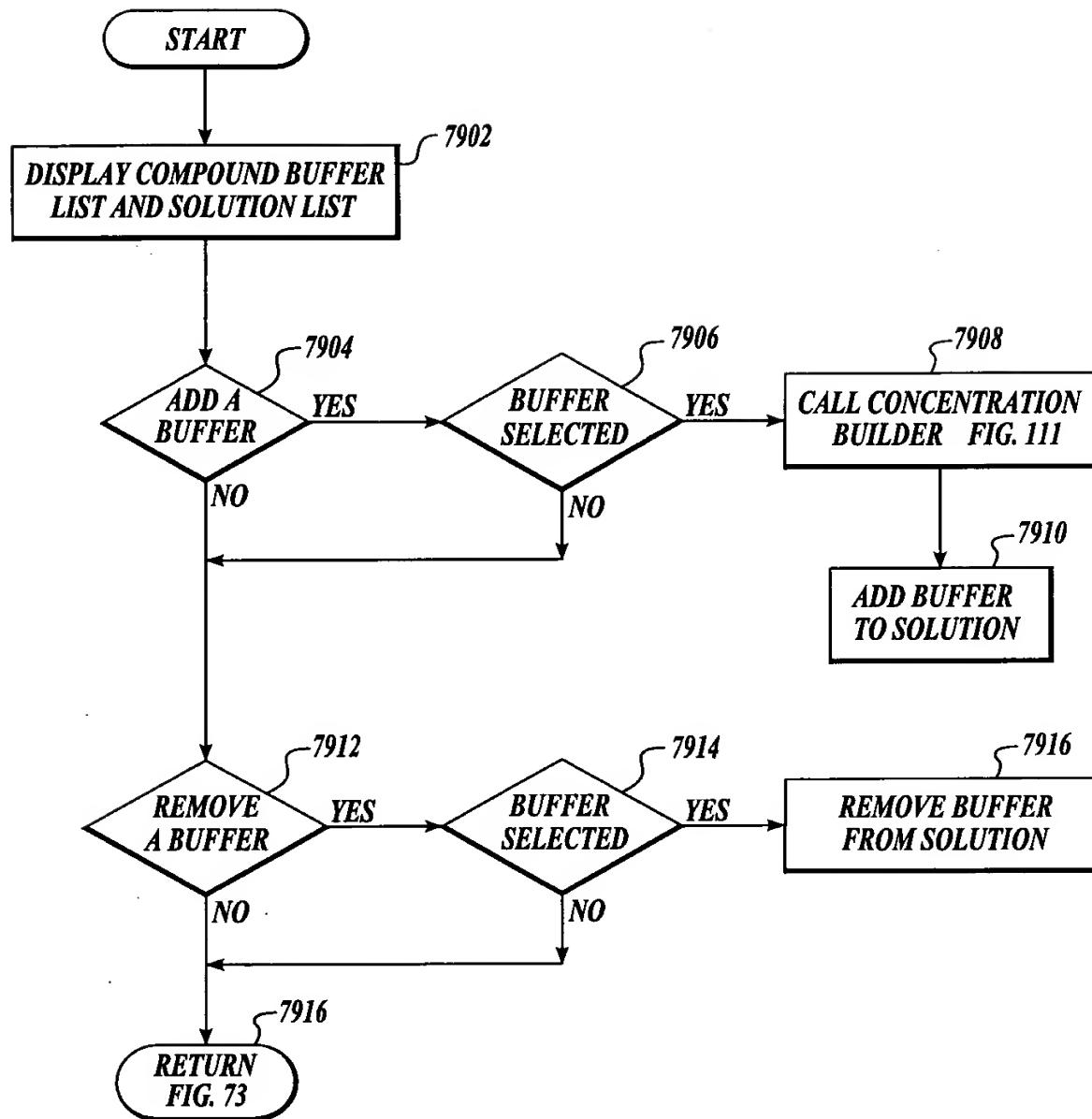


Fig. 79

Formulation: ammonium sulfate

Category: Buffer Agent Chelator CryoCoolant CSI Detergent Gas HeavyAtomCompound Metal NucleationSuppressant Organic Other pHConjugate Precipitant ReducingAgent Solvent

8000

8004

New Chemical...

8002

8006

8003

8008

8010

8011

8014

8012

8013

8015

8016

8017

8018

8019

8020

8021

8022

8023

8024

8025

8026

8027

8028

8029

8030

8031

8032

8033

8034

8035

8036

8037

8038

8039

8040

8041

8042

8043

8044

8045

8046

8047

8048

8049

8050

8051

8052

8053

8054

8055

8056

8057

8058

8059

8060

8061

8062

8063

8064

8065

8066

8067

8068

8069

8070

8071

8072

8073

8074

8075

8076

8077

8078

8079

8080

8081

8082

8083

8084

8085

8086

8087

8088

8089

8090

8091

8092

8093

8094

8095

8096

8097

8098

8099

8100

8101

8102

8103

8104

8105

8106

8107

8108

8109

8110

8111

8112

8113

8114

8115

8116

8117

8118

8119

8120

8121

8122

8123

8124

8125

8126

8127

8128

8129

8130

8131

8132

8133

8134

8135

8136

8137

8138

8139

8140

8141

8142

8143

8144

8145

8146

8147

8148

8149

8150

8151

8152

8153

8154

8155

8156

8157

8158

8159

8160

8161

8162

8163

8164

8165

8166

8167

8168

8169

8170

8171

8172

8173

8174

8175

8176

8177

8178

8179

8180

8181

8182

8183

8184

8185

8186

8187

8188

8189

8190

8191

8192

8193

8194

8195

8196

8197

8198

8199

8200

8201

8202

8203

8204

8205

8206

8207

8208

8209

8210

8211

8212

8213

8214

8215

8216

8217

8218

8219

8220

8221

8222

8223

8224

8225

8226

8227

8228

8229

8230

8231

8232

8233

8234

8235

8236

8237

8238

8239

8240

8241

8242

8243

8244

8245

8246

8247

8248

8249

8250

8251

8252

8253

8254

8255

8256

8257

8258

8259

8260

8261

8262

8263

8264

8265

8266

8267

8268

8269

8270

8271

8272

8273

8274

8275

8276

8277

8278

8279

8280

8281

8282

8283

8284

8285

8286

8287

8288

8289

8290

8291

8292

8293

8294

8295

8296

8297

8298

8299

8300

8301

8302

8303

8304

8305

8306

8307

8308

8309

8310

8311

8312

8313

8314

8315

8316

8317

8318

8319

8320

8321

8322

8323

8324

8325

8326

8327

8328

8329

8330

8331

8332

8333

8334

8335

8336

8337

8338

8339

8340

8341

8342

8343

8344

8345

8346

8347

8348

8349

8350

8351

8352

8353

8354

8355

8356

8357

8358

8359

8360

8361

8362

8363

8364

8365

8366

8367

8368

8369

8370

8371

8372

8373

8374

8375

8376

8377

8378

8379

8380

8381

8382

8383

8384

8385

8386

8387

8388

8389

8390

8391

8392

8393

8394

8395

8396

8397

8398

8399

8400

8401

8402

8403

8404

8405

8406

8407

8408

8409

8410

8411

8412

8413

8414

8415

8416

8417

8418

8419

8420

8421

8422

8423

8424

8425

8426

8427

8428

8429

8430

8431

8432

8433

8434

8435

8436

8437

8438

8439

8440

8441

8442

8443

8444

8445

8446

8447

8448

8449

8450

8451

8452

8453

8454

8455

8456

8457

8458

8459

8460

8461

8462

8463

8464

8465

8466

8467

8468

8469

8470

8471

8472

8473

8474

8475

8476

8477

8478

8479

8480

8481

8482

8483

8484

8485

8486

8487

8488

8489

8490

8491

8492

8493

8494

8495

8496

8497

8498

8499

8500

8501

8502

8503

8504

8505

8506

8507

8508

8509

8510

8511

8512

8513

8514

8515

8516

8517

8518

8519

8520

8521

8522

8523

8524

8525

8526

8527

8528

8529

8530

8531

8532

8533

8534

8535

8536

8537

8538

8539

8540

8541

8542

8543

8544

8545

8546

8547

8548

8549

8550

8551

8552

8553

8554

8555

8556

8557

8558

8559

8560

8561

8562

8563

8564

8565

8566

8567

8568

8569

8570

8571

8572

8573

8574

8575

8576

8577

8578

8579

8580

8581

8582

8583

8584

8585

8586

8587

8588

8589

8590

8591

8592

8593

8594

8595

8596

8597

8598

8599

8600

8601

8602

8603

8604

8605

8606

8607

8608

8609

8610

8611

8612

8613

8614

8615

8616

8617

8618

8619

8620

8621

8622

8623

8624

8625

8626

8627

8628

8629

8630

8631

8632

8633

8634

8635

8636

8637

8638

8639

8640

8641

8642

8643

8644

8645

8646

8647

8648

8649

8650

8651

8652

8653

8654

8655

8656

8657

8658

8659

8660

8661

8662

8663

8664

8665

8666

8667

8668

8669

8670

8671

8672

8673

8674

8675

8676

8677

8678

8679

8680

8681

8682

8683

8684

8685

8686

8687

8688

8689

8690

8691

8692

8693

8694

8695

8696

8697

8698

8699

8700

8701

8702

8703

8704

8705

8706

8707

8708

8709

8710

8711

8712

8713

8714

8715

8716

8717

8718

8719

8720

8721

8722

8723

8724

8725

8726

8727

8728

8729

8730

8731

8732

8733

8734

8735

8736

8737

8738

8739

8740

8741

8742

8743

8744

8745

8746

8747

8748

8749

8750

8751

8752

8753

8754

8755

8756

8757

8758

8759

8760

8761

8762

8763

8764

8765

8766

8767

8768

8769

8770

8771

8772

8773

8774

8775

8776

8777

8778

8779

8780

8781

8782

8783

8784

8785

8786

8787

8788

8789

8790

8791

8792

8793

8794

8795

8796

8797

8798

8799

8800

8801

8802

8803

8804

8805

8806

8807

8808

8809

8810

8811

8812

8813

8814

8815

8816

8817

8818

8819

8820

8821

8822

8823

8824

8825

8826

8827

8828

8829

8830

8831

8832

8833

8834

8835

8836

8837

8838

8839

8840

8841

8842

8843

8844

8845

8846

8847

8848

8849

8850

8851

8852

8853

8854

8855

8856

8857

8858

8859

8860

8861

8862

8863

8864

8865

8866

8867

8868

8869

8870

8871

8872

8873

8874

8875

8876

8877

8878

8879

8880

8881

8882

8883

8884

8885

8886

8887

8888

8889

8890

8891

8892

8893

8894

8895

8896

8897

8898

8899

8900

8901

8902

8903

8904

8905

8906

8907

8908

8909

8910

8911

8912

8913

8914

8915

8916

8917

8918

8919

8920

8921

8922

8923

8924

8925

8926

8927

8928

8929

8930

8931

8932

8933

8934

8935

8936

8937

8938

8939

8940

8941

8942</

Fig. 80

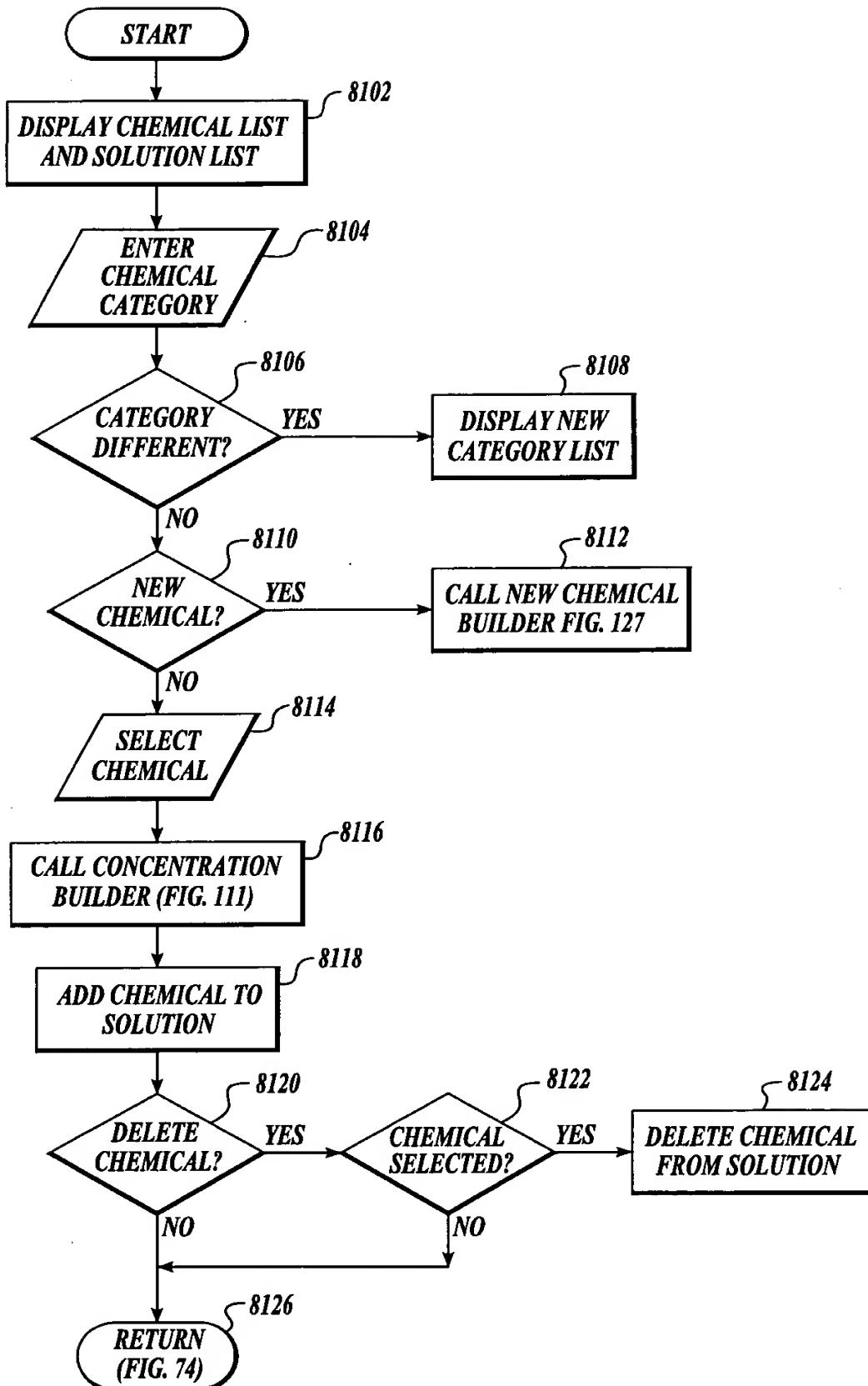


Fig. 81

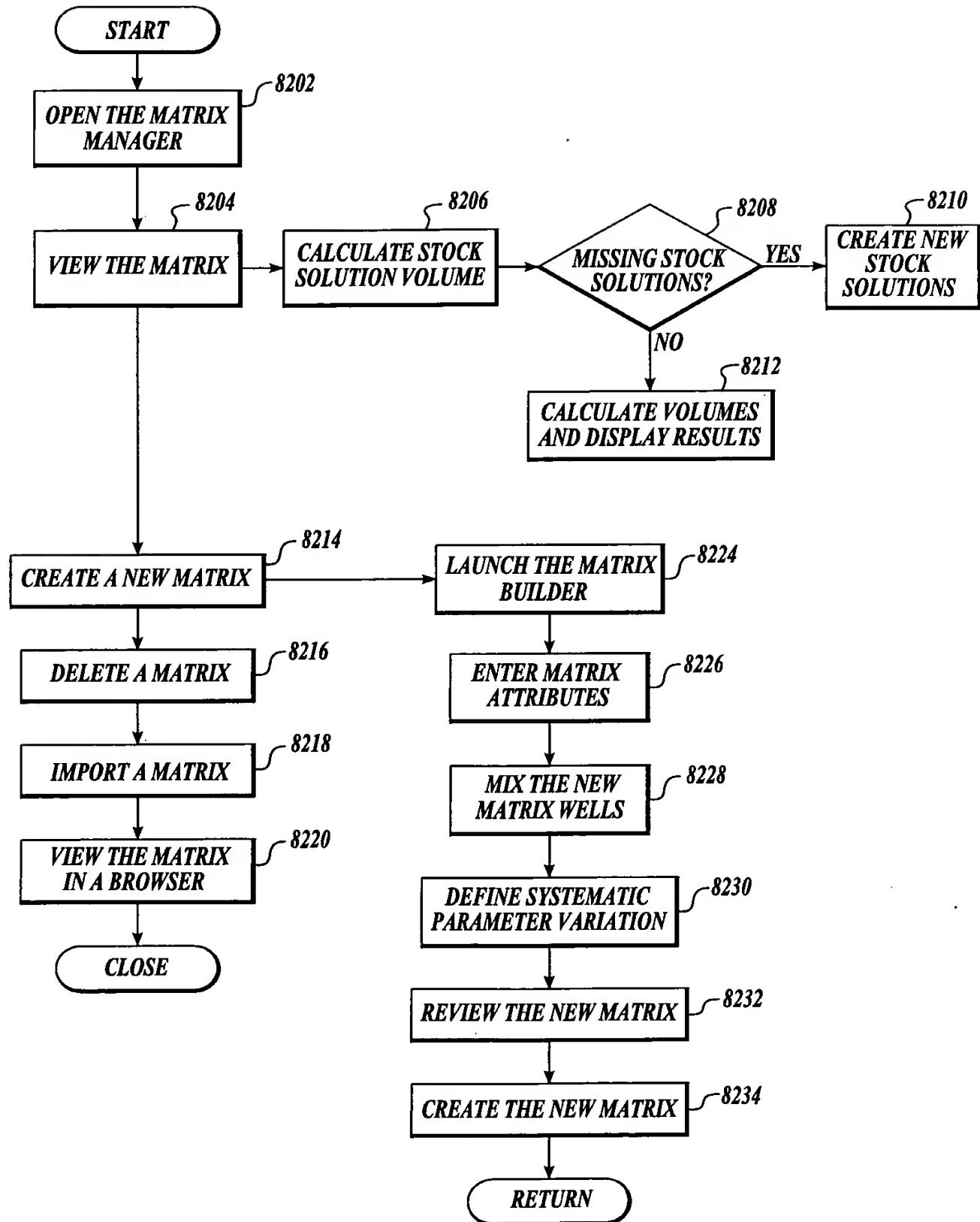


Fig. 82

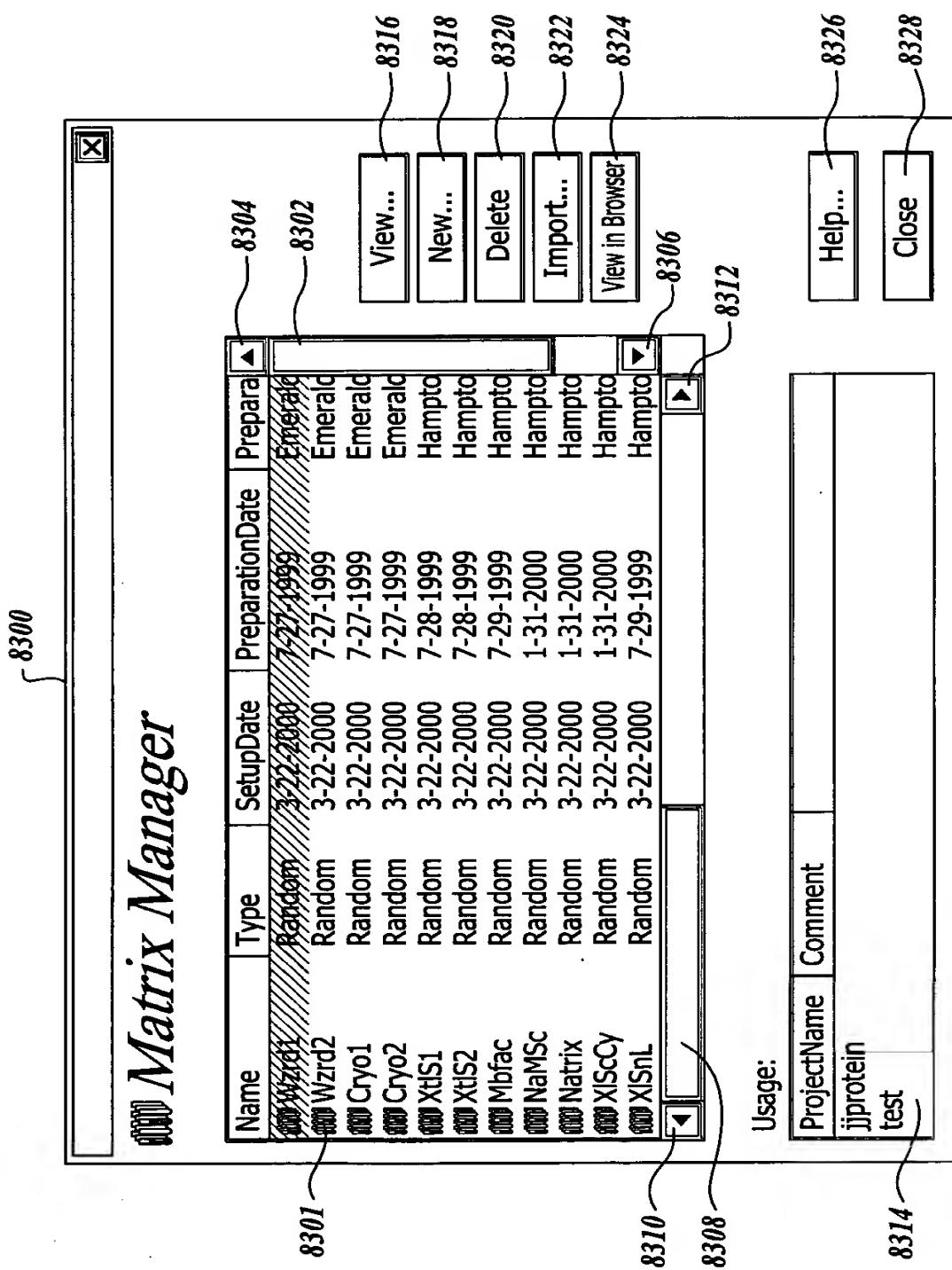


Fig. 83

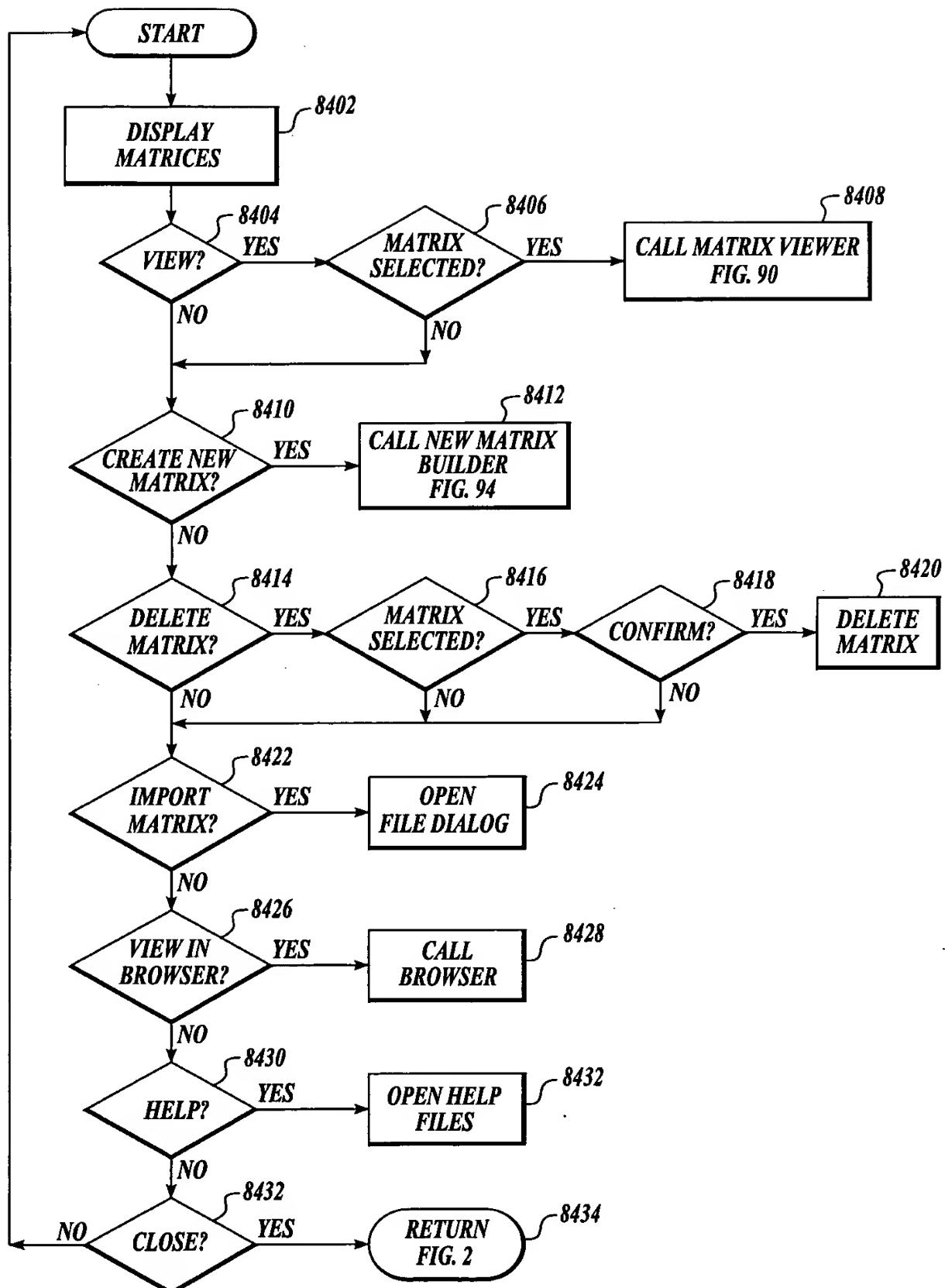


Fig. 84

8500

8501

8502

8503

8504

8505

8506

Matrix Viewer

(2)	(2)	(2)	(2)	(2)	(2)
(2)	(2)	(2)	(2)	(2)	(2)
(2)	(2)	(2)	(2)	(2)	(2)
(2)	(2)	(2)	(2)	(2)	(2)
(2)	(2)	(2)	(2)	(2)	(2)

Matrix Name: newsys061599

Matrix Type: Systematic

Commercial: No

Preparator: Admin

X-Axis (systematically varied): polyethylene glycol 200

Y-Axis (systematically varied): sodium chloride

Comment:

OK Cancel

Calc. Stock Sol. Vol. needed

Fig. 85

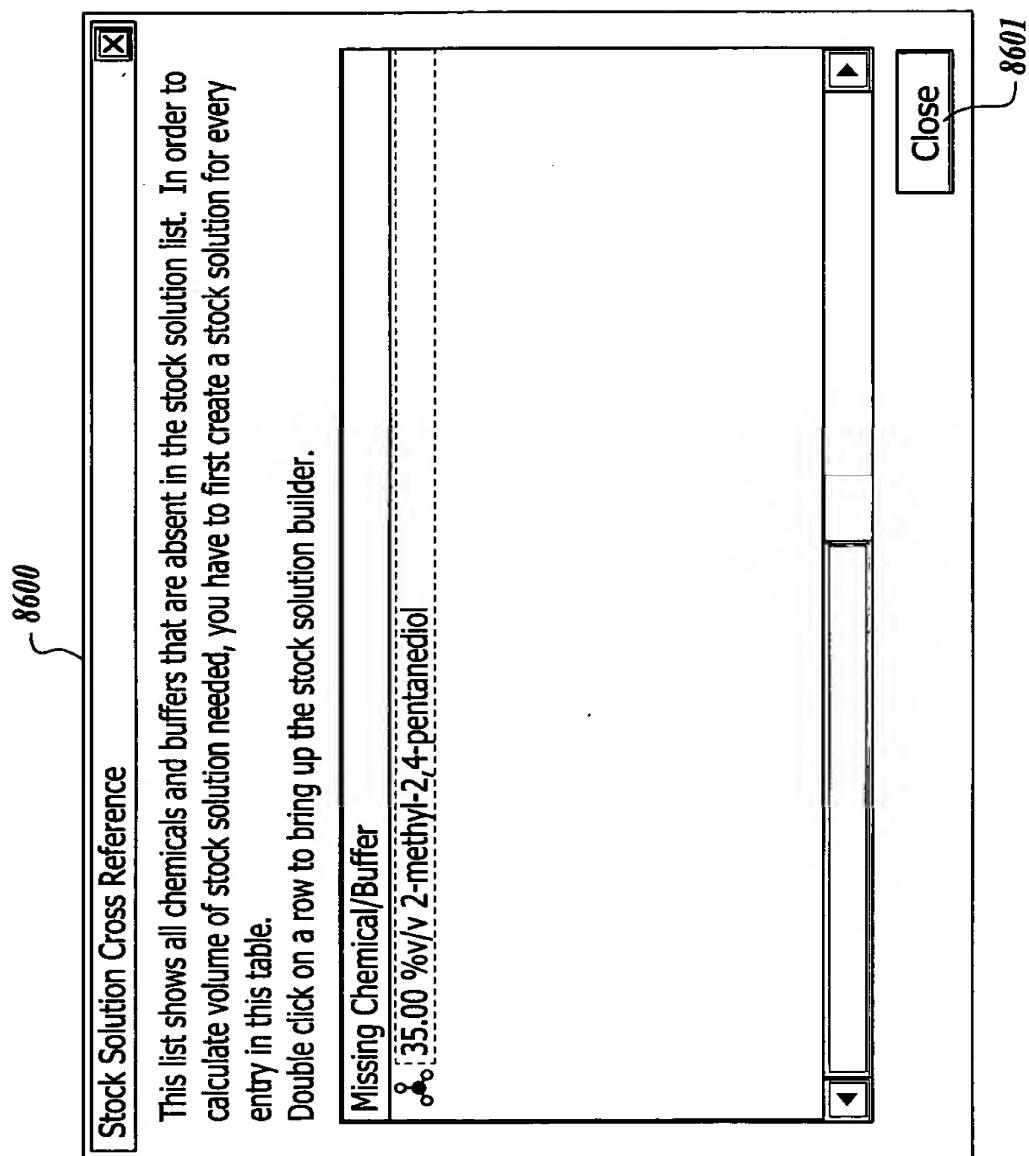


Fig. 86

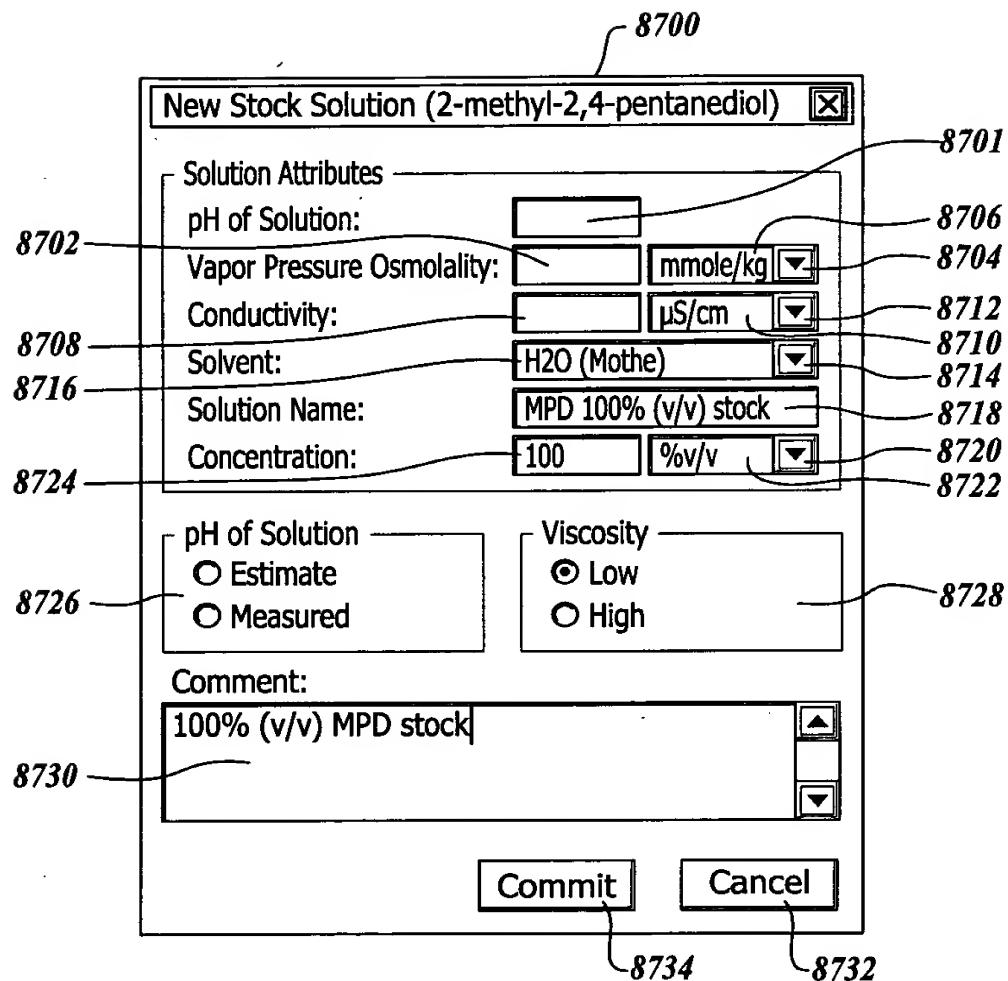


Fig. 87

8800

Stock solution volumes to build matrix newsys061599

What is the final desired Crystallant volume? ml

WellID	Volume	Stock Name	Stock Conc.	Chemical Name
1	1.000 ml	PEG-200 stock	100.000 %v/v	PEG-200 (Sigma Chemical ...)
1	0.200 ml	sodium chloride 5 M stock	5000.000 mM	sodium chloride (Sigma Ch...)
1	8.800 ml		n/a	H2O
1	1.500 ml	PEG-200 stock	100.000 %v/v	PEG-200 (Sigma Chemical ...)
2	0.200 ml	sodium chloride 5 M stock	5000.000 mM	sodium chloride (Sigma Ch...)
2	1.500 ml		n/a	H2O
2	0.200 ml	PEG-200 stock	100.000 %v/v	PEG-200 (Sigma Chemical ...)
2	8.300 ml	sodium chloride 5 M stock	5000.000 mM	sodium chloride (Sigma Ch...)
2	2.000 ml		n/a	H2O
3	2.000 ml	PEG-200 stock	100.000 %v/v	PEG-200 (Sigma Chemical ...)
3	0.200 ml	sodium chloride 5 M stock	5000.000 mM	sodium chloride (Sigma Ch...)
3	7.800 ml		n/a	H2O
3	2.500 ml	PEG-200 stock	100.000 %v/v	PEG-200 (Sigma Chemical ...)
3	0.200 ml	sodium chloride 5 M stock	5000.000 mM	sodium chloride (Sigma Ch...)
3	7.300 ml		n/a	H2O
4	3.000 ml	PEG-200 stock	100.000 %v/v	PEG-200 (Sigma Chemical ...)
4	0.200 ml	sodium chloride 5 M stock	5000.000 mM	sodium chloride (Sigma Ch...)
4	7.000 ml			
5	3.000 ml	PEG-200 stock	100.000 %v/v	
5	0.200 ml	sodium chloride 5 M stock	5000.000 mM	
5	6.800 ml			

8801 8804 8802 8806

8808 8810 8812 8814

Fig. 88

WELLID	VOLUME	STOCK NAME	STOCK CONC.	CHEMICAL NAME	CHEMICAL TYPE	FINAL CONC.
1	1.000 ML	PEG-200 STOCK	100.000 %V/V	PEG-200 (SIGMA CHEMICAL CO.)	PRECIPITANT	10.000 %V/V CONC.
1	0.200 ML	SODIUM CHLORIDE 5 M STOCK	5000.000 mM	SODIUM CHLORIDE (SIGMA CHEMICAL CO.)	PRECIPITANT	100.000 mM

Fig. 89A

1	8.800 ML		N/A	H2O	SOLVENT	N/A
2	1.500 ML	PEG-200 STOCK	100.000 %V/V	PEG-200 (SIGMA CHEMICAL CO.)	PRECIPITANT	15.000 %V/V
2	0.200 ML	SODIUM CHLORIDE 5 M STOCK	5000.000 mM	SODIUM CHLORIDE (SIGMA CHEMICAL CO.)	PRECIPITANT	100.000 mM
2	8.300 ML		N/A	H2O	SOLVENT	N/A
3	2.000 ML	PEG-200 STOCK	100.000 %V/V	PEG-200 (SIGMA CHEMICAL CO.)	PRECIPITANT	20.000 %V/V
3	0.200 ML	SODIUM CHLORIDE 5 M STOCK	5000.000 mM	SODIUM CHLORIDE (SIGMA CHEMICAL CO.)	PRECIPITANT	100.000 mM
3	7.800 ML		N/A	H2O	SOLVENT	N/A
4	2.500 ML	PEG-200 STOCK	100.000 %V/V	PEG-200 (SIGMA CHEMICAL CO.)	PRECIPITANT	25.000 %V/V
4	0.200 ML	SODIUM CHLORIDE 5 M STOCK	5000.000 mM	SODIUM CHLORIDE (SIGMA CHEMICAL CO.)	PRECIPITANT	100.000 mM
4	7.300 ML		N/A	H2O	SOLVENT	N/A
5	3.000 ML	PEG-200 STOCK	100.000 %V/V	PEG-200 (SIGMA CHEMICAL CO.)	PRECIPITANT	30.000 %V/V
5	0.200 ML	SODIUM CHLORIDE 5 M STOCK	5000.000 mM	SODIUM CHLORIDE (SIGMA CHEMICAL CO.)	PRECIPITANT	100.000 mM
5	6.800 ML		N/A	H2O	SOLVENT	N/A
6	3.500 ML	PEG-200 STOCK	100.000 %V/V	PEG-200 (SIGMA CHEMICAL CO.)	PRECIPITANT	35.000 %V/V

Fig. 89B

6	0.200 ML	SODIUM CHLORIDE 5 M STOCK	5000.000 mM	SODIUM CHLORIDE (SIGMA CHEMICAL CO.)	PRECIPITANT	100.000 mM
6	6.300 ML		N/A	H2O	SOLVENT	N/A
7	1.000 ML	PEG-200 STOCK	100.000 %V/V	PEG-200 (SIGMA CHEMICAL CO.)	PRECIPITANT	10.000 %V/V
7	0.400 ML	SODIUM CHLORIDE 5 M STOCK	5000.000 mM	SODIUM CHLORIDE (SIGMA CHEMICAL CO.)	PRECIPITANT	200.000 mM
7	8.600 ML		N/A	H2O	SOLVENT	N/A
8	1.500 ML	PEG-200 STOCK	100.000 %V/V	PEG-200 (SIGMA CHEMICAL CO.)	PRECIPITANT	15.000 %V/V
8	0.400 ML	SODIUM CHLORIDE 5 M STOCK	5000.000 mM	SODIUM CHLORIDE (SIGMA CHEMICAL CO.)	PRECIPITANT	200.000 mM
8	8.100 ML		N/A	H2O	SOLVENT	N/A
9	2.000 ML	PEG-200 STOCK	100.000 %V/V	PEG-200 (SIGMA CHEMICAL CO.)	PRECIPITANT	20.000 %V/V
9	0.400 ML	SODIUM CHLORIDE 5 M STOCK	5000.000 mM	SODIUM CHLORIDE (SIGMA CHEMICAL CO.)	PRECIPITANT	200.000 mM
9	7.600 ML		N/A	H2O	SOLVENT	N/A
10	2.500 ML	PEG-200 STOCK	100.000 %V/V	PEG-200 (SIGMA CHEMICAL CO.)	PRECIPITANT	25.000 %V/V

Fig. 89C

10	0.400 ML	SODIUM CHLORIDE 5 M STOCK	5000.000 mM	SODIUM CHLORIDE (SIGMA CHEMICAL CO.)	PRECIPITANT	200.000 mM
10	7.100 ML		N/A	H2O	SOLVENT	N/A
11	3.000 ML	PEG-200 STOCK	100.000 %V/V	PEG-200 (SIGMA CHEMICAL CO.)	PRECIPITANT	30.000 %V/V
11	0.400 ML	SODIUM CHLORIDE 5 M STOCK	5000.000 mM	SODIUM CHLORIDE (SIGMA CHEMICAL CO.)	PRECIPITANT	200.000 mM
11	6.600 ML		N/A	H2O	SOLVENT	N/A
12	3.500 ML	PEG-200 STOCK	100.000 %V/V	PEG-200 (SIGMA CHEMICAL CO.)	PRECIPITANT	35.000 %V/V
12	0.400 ML	SODIUM CHLORIDE 5 M STOCK	5000.000 mM	SODIUM CHLORIDE (SIGMA CHEMICAL CO.)	PRECIPITANT	200.000 mM
12	6.100 ML		N/A	H2O	SOLVENT	N/A
13	1.000 ML	PEG-200 STOCK	100.000 %V/V	PEG-200 (SIGMA CHEMICAL CO.)	PRECIPITANT	10.000 %V/V
13	0.600 ML	SODIUM CHLORIDE 5 M STOCK	5000.000 mM	SODIUM CHLORIDE (SIGMA CHEMICAL CO.)	PRECIPITANT	300.000 mM
13	8.400 ML		N/A	H2O	SOLVENT	N/A
14	2.500 ML	PEG-200 STOCK	100.000 %V/V	PEG-200 (SIGMA CHEMICAL CO.)	PRECIPITANT	25.000 %V/V
14	0.600 ML	SODIUM CHLORIDE 5 M STOCK	5000.000 mM	SODIUM CHLORIDE (SIGMA CHEMICAL CO.)	PRECIPITANT	300.000 mM

Fig. 89D

14	7.900 ML		N/A	H2O	SOLVENT	N/A
15	2.000 ML	PEG-200 STOCK	100.000 %V/V	PEG-200 (SIGMA CHEMICAL CO.)	PRECIPITANT	20.000 %V/V
15	0.600 ML	SODIUM CHLORIDE 5 M STOCK	5000.000 mM	SODIUM CHLORIDE (SIGMA CHEMICAL CO.)	PRECIPITANT	300.000 mM
15	7.400 ML		N/A	H2O	SOLVENT	N/A
16	2.500 ML	PEG-200 STOCK	100.000 %V/V	PEG-200 (SIGMA CHEMICAL CO.)	PRECIPITANT	25.000 %V/V
16	0.600 ML	SODIUM CHLORIDE 5 M STOCK	5000.000 mM	SODIUM CHLORIDE (SIGMA CHEMICAL CO.)	PRECIPITANT	300.000 mM
16	6.900 ML		N/A	H2O	SOLVENT	N/A
17	3.000 ML	PEG-200 STOCK	100.000 %V/V	PEG-200 (SIGMA CHEMICAL CO.)	PRECIPITANT	30.000 %V/V
17	0.600 ML	SODIUM CHLORIDE 5 M STOCK	5000.000 mM	SODIUM CHLORIDE (SIGMA CHEMICAL CO.)	PRECIPITANT	300.000 mM
17	6.400 ML		N/A	H2O	SOLVENT	N/A
18	3.500 ML	PEG-200 STOCK	100.000 %V/V	PEG-200 (SIGMA CHEMICAL CO.)	PRECIPITANT	35.000 %V/V
18	0.600 ML	SODIUM CHLORIDE 5 M STOCK	5000.000 mM	SODIUM CHLORIDE (SIGMA CHEMICAL CO.)	PRECIPITANT	300.000 mM

Fig. 89E

18	5.900 ML		N/A	H2O	SOLVENT	N/A
19	1.000 ML	PEG-200 STOCK	100.000 %V/V	PEG-200 (SIGMA CHEMICAL CO.)	PRECIPITANT	10.000 %V/V
19	0.800 ML	SODIUM CHLORIDE 5 M STOCK	5000.000 mM	SODIUM CHLORIDE (SIGMA CHEMICAL CO.)	PRECIPITANT	400.000 mM
19	8.200 ML		N/A	H2O	SOLVENT	N/A
20	1.500 ML	PEG-200 STOCK	100.000 %V/V	PEG-200 (SIGMA CHEMICAL CO.)	PRECIPITANT	15.000 %V/V
20	0.800 ML	SODIUM CHLORIDE 5 M STOCK	5000.000 mM	SODIUM CHLORIDE (SIGMA CHEMICAL CO.)	PRECIPITANT	400.000 mM
20	7.700 ML		N/A	H2O	SOLVENT	N/A
21	2.000 ML	PEG-200 STOCK	100.000 %V/V	PEG-200 (SIGMA CHEMICAL CO.)	PRECIPITANT	20.000 %V/V
21	0.800 ML	SODIUM CHLORIDE 5 M STOCK	5000.000 mM	SODIUM CHLORIDE (SIGMA CHEMICAL CO.)	PRECIPITANT	400.000 mM
21	7.200 ML		N/A	H2O	SOLVENT	N/A
22	2.500 ML	PEG-200 STOCK	100.000 %V/V	PEG-200 (SIGMA CHEMICAL CO.)	PRECIPITANT	25.000 %V/V
22	0.800 ML	SODIUM CHLORIDE 5 M STOCK	5000.000 mM	SODIUM CHLORIDE (SIGMA CHEMICAL CO.)	PRECIPITANT	400.000 mM

Fig. 89F

22	6.700 ML		N/A	H2O	SOLVENT	N/A
23	3.000 ML	PEG-200 STOCK	100.000 %V/V	PEG-200 (SIGMA CHEMICAL CO.)	PRECIPITANT	30.000 %V/V
23	0.800 ML	SODIUM CHLORIDE 5 M STOCK	5000.000 mM	SODIUM CHLORIDE (SIGMA CHEMICAL CO.)	PRECIPITANT	400.000 mM
23	6.200 ML		N/A	H2O	SOLVENT	N/A
24	3.500 ML	PEG-200 STOCK	100.000 %V/V	PEG-200 (SIGMA CHEMICAL CO.)	PRECIPITANT	35.000 %V/V
24	0.800 ML	SODIUM CHLORIDE 5 M STOCK	5000.000 mM	SODIUM CHLORIDE (SIGMA CHEMICAL CO.)	PRECIPITANT	400.000 mM
24	5.700 ML		N/A	H2O	SOLVENT	N/A

Fig. 89G

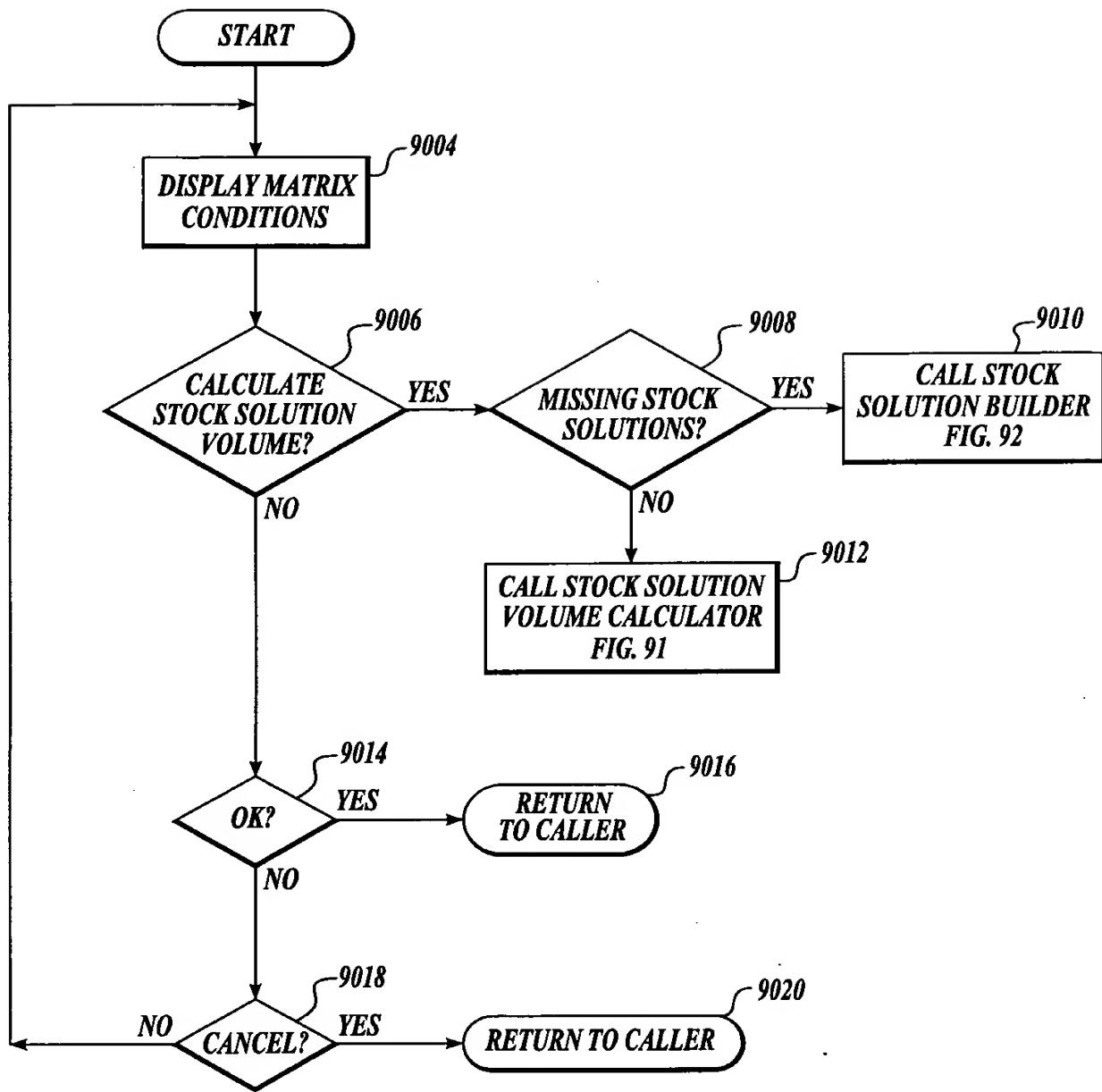


Fig. 90

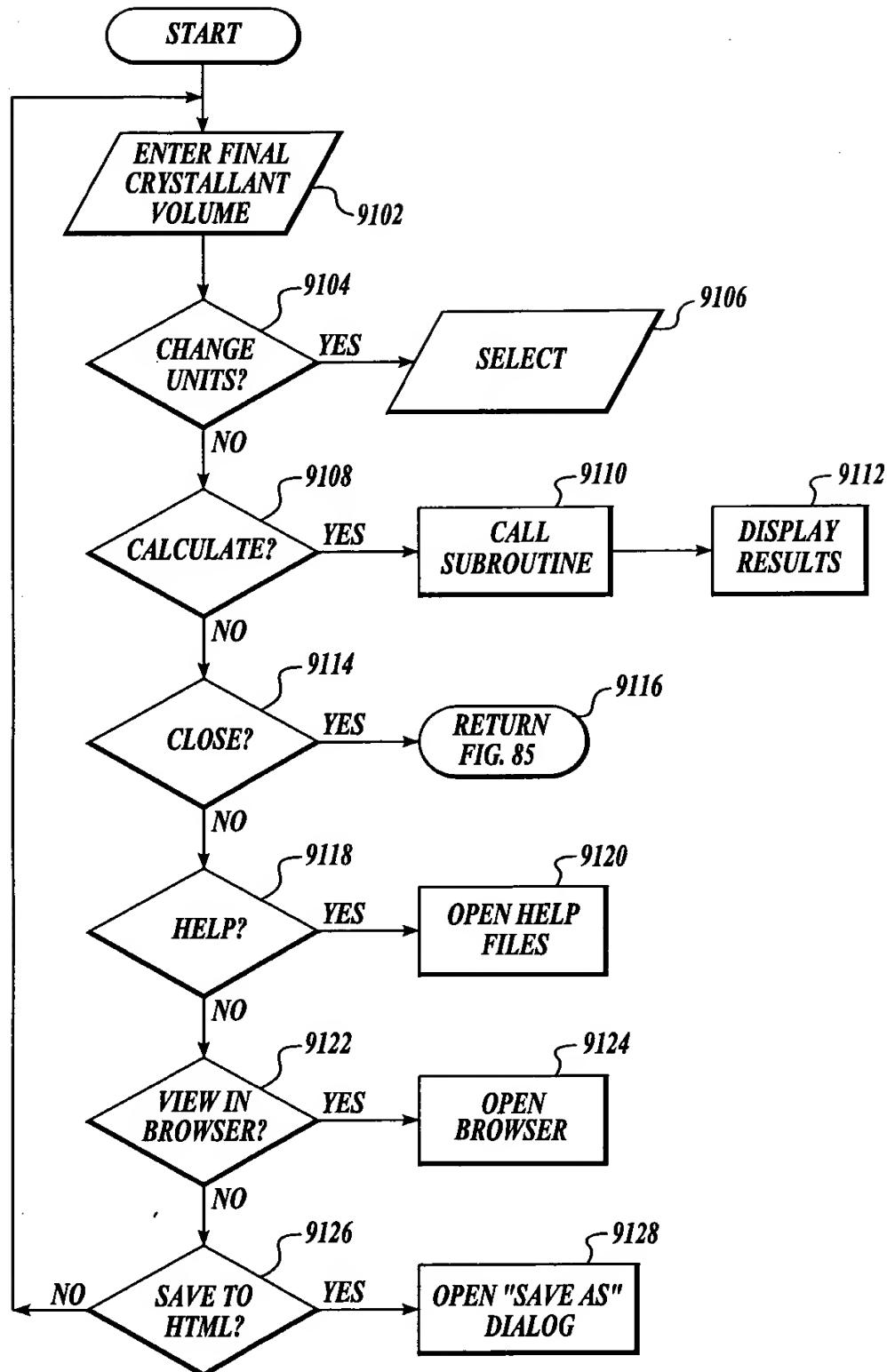


Fig. 91

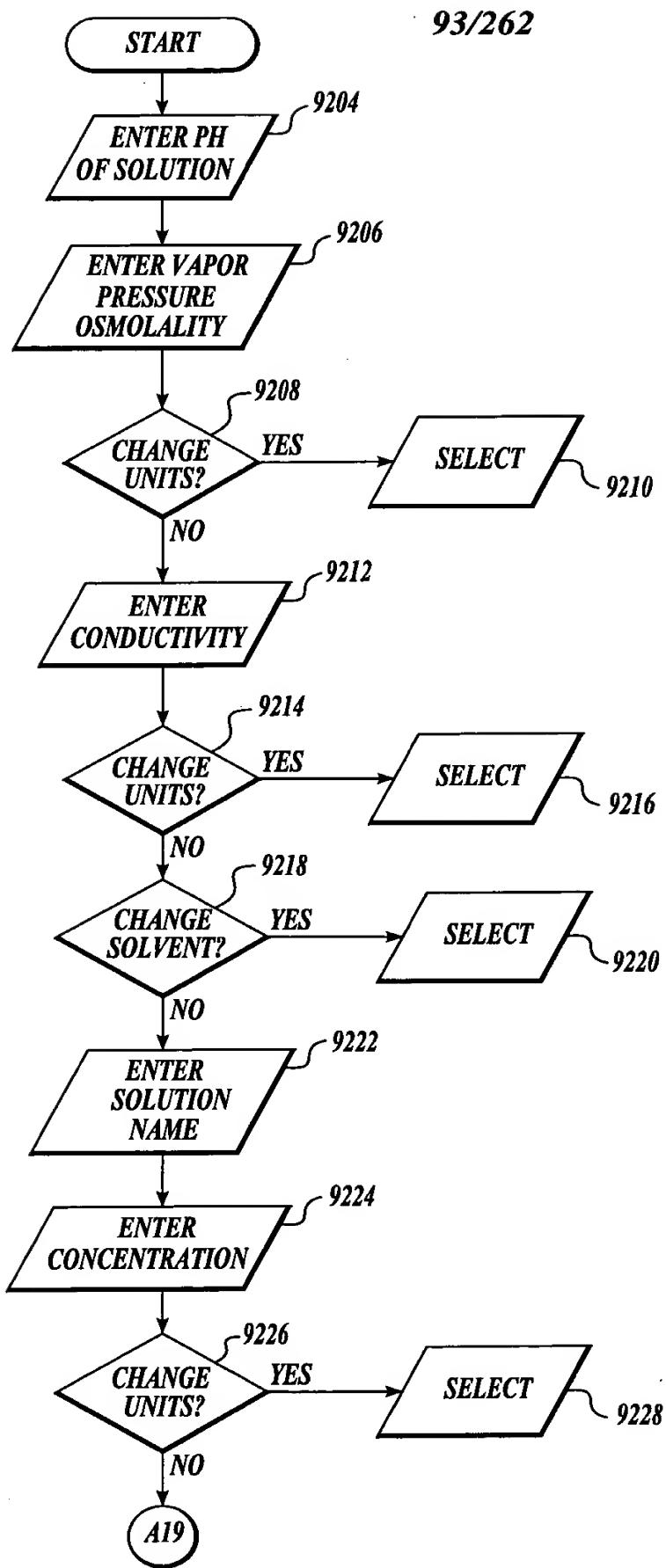


Fig. 92

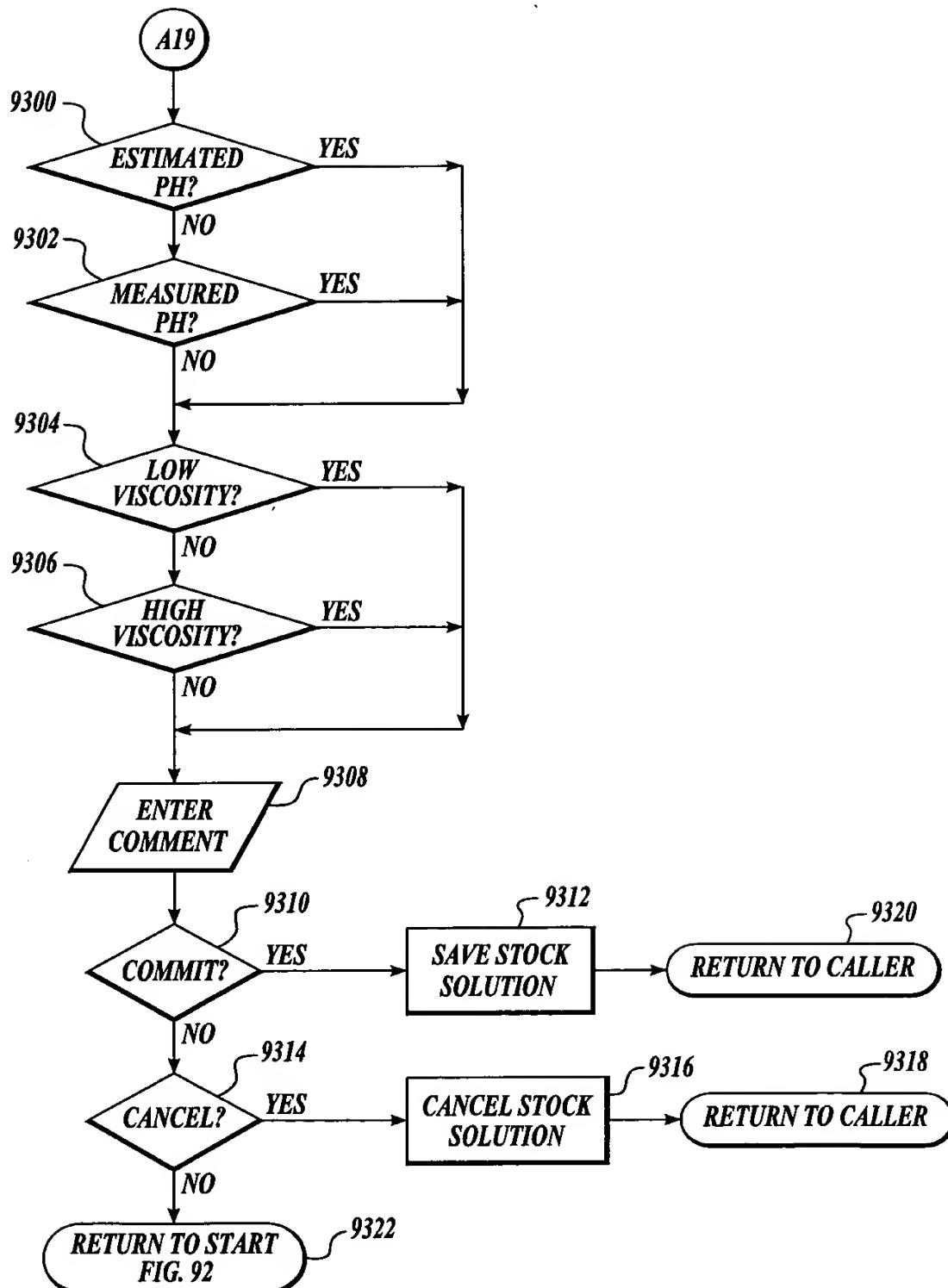


Fig. 93

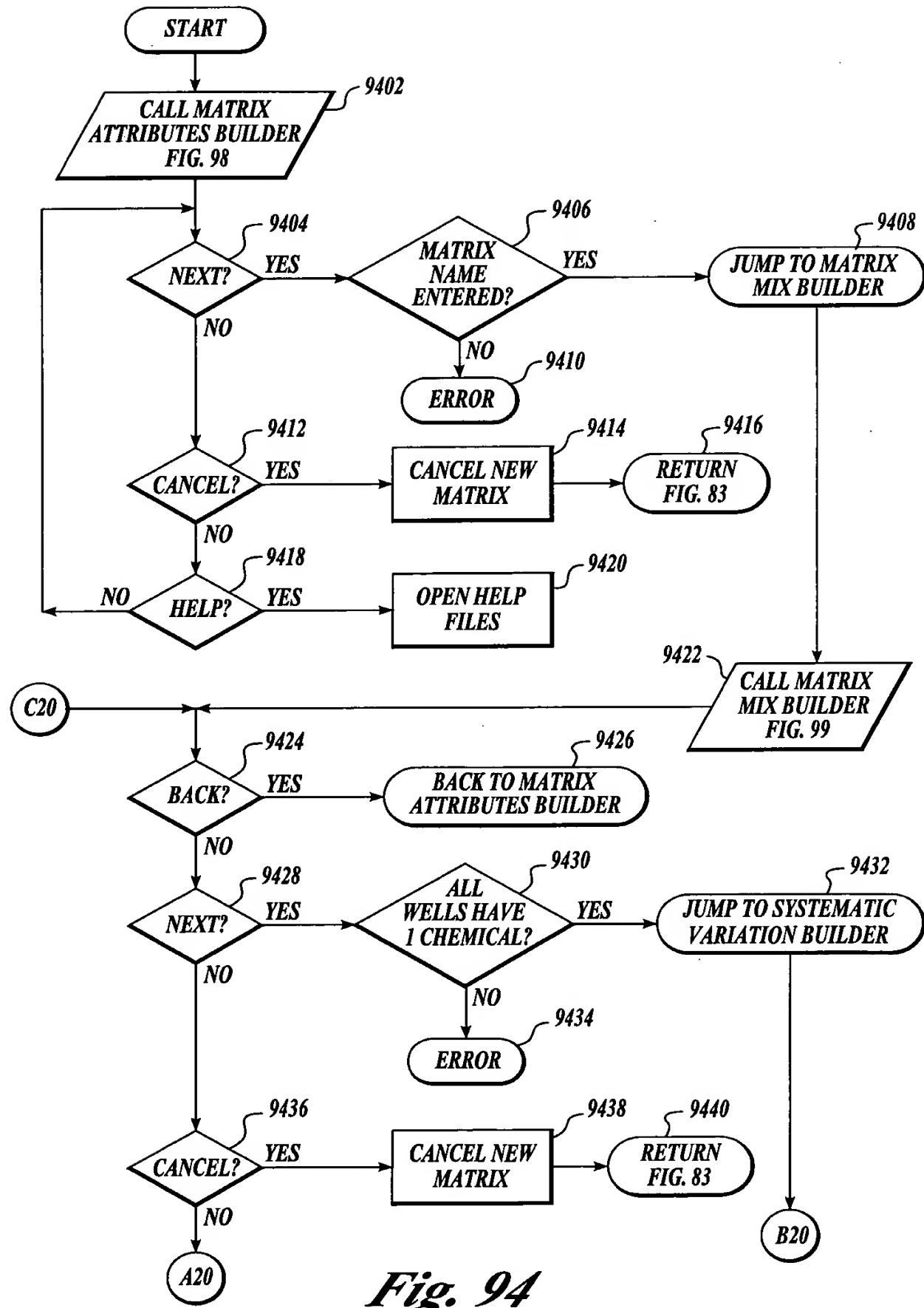


Fig. 94

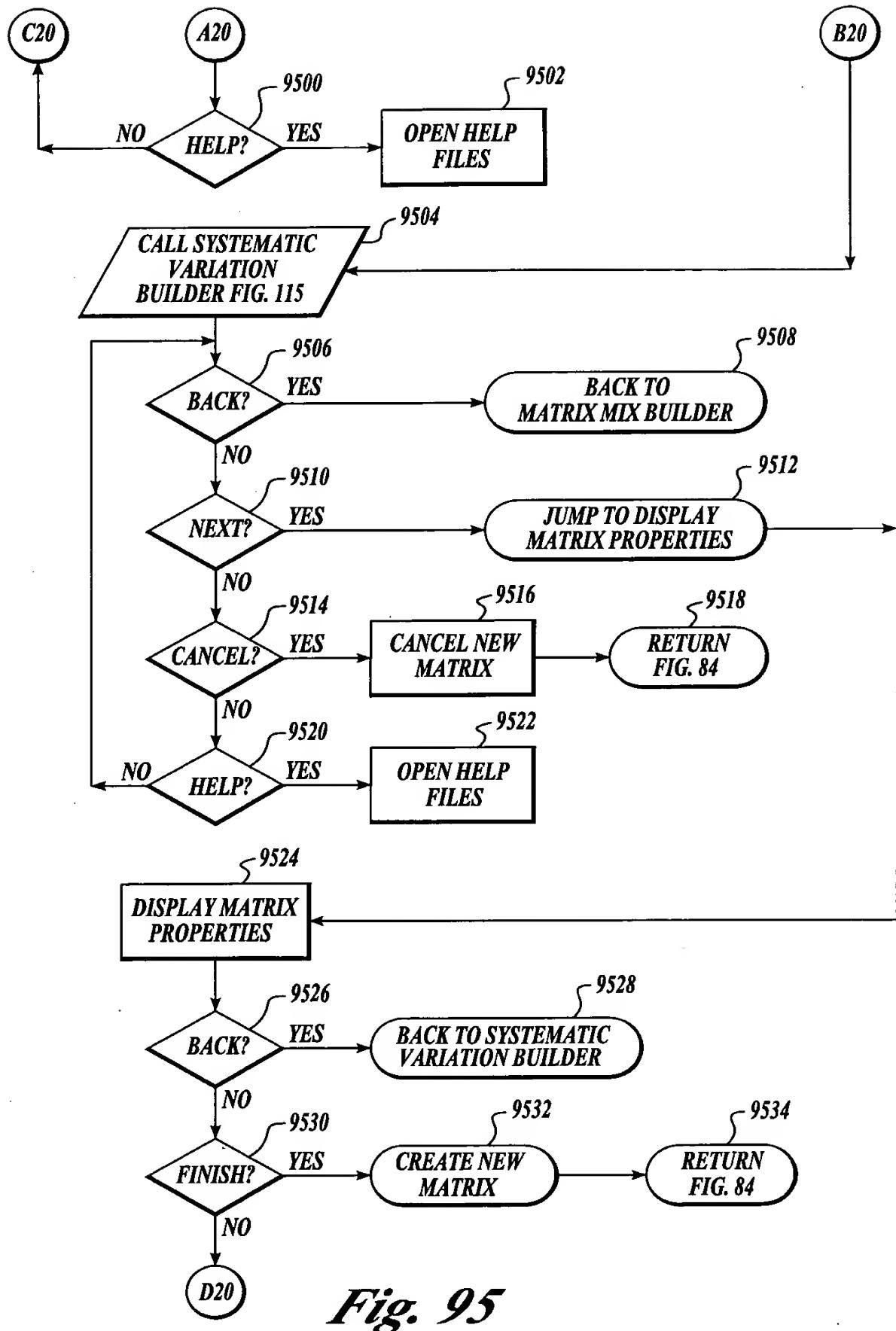


Fig. 95

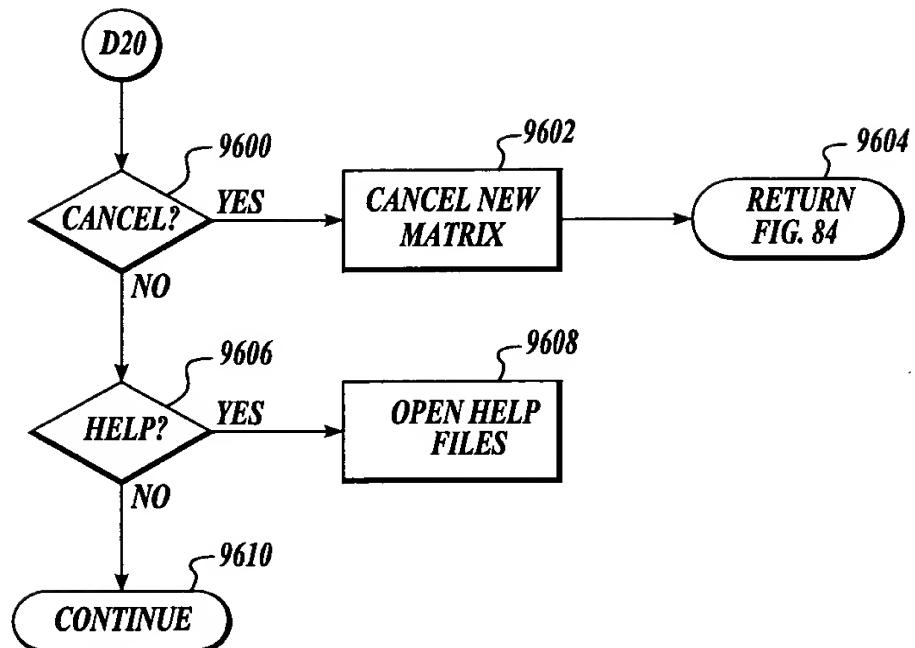


Fig. 96

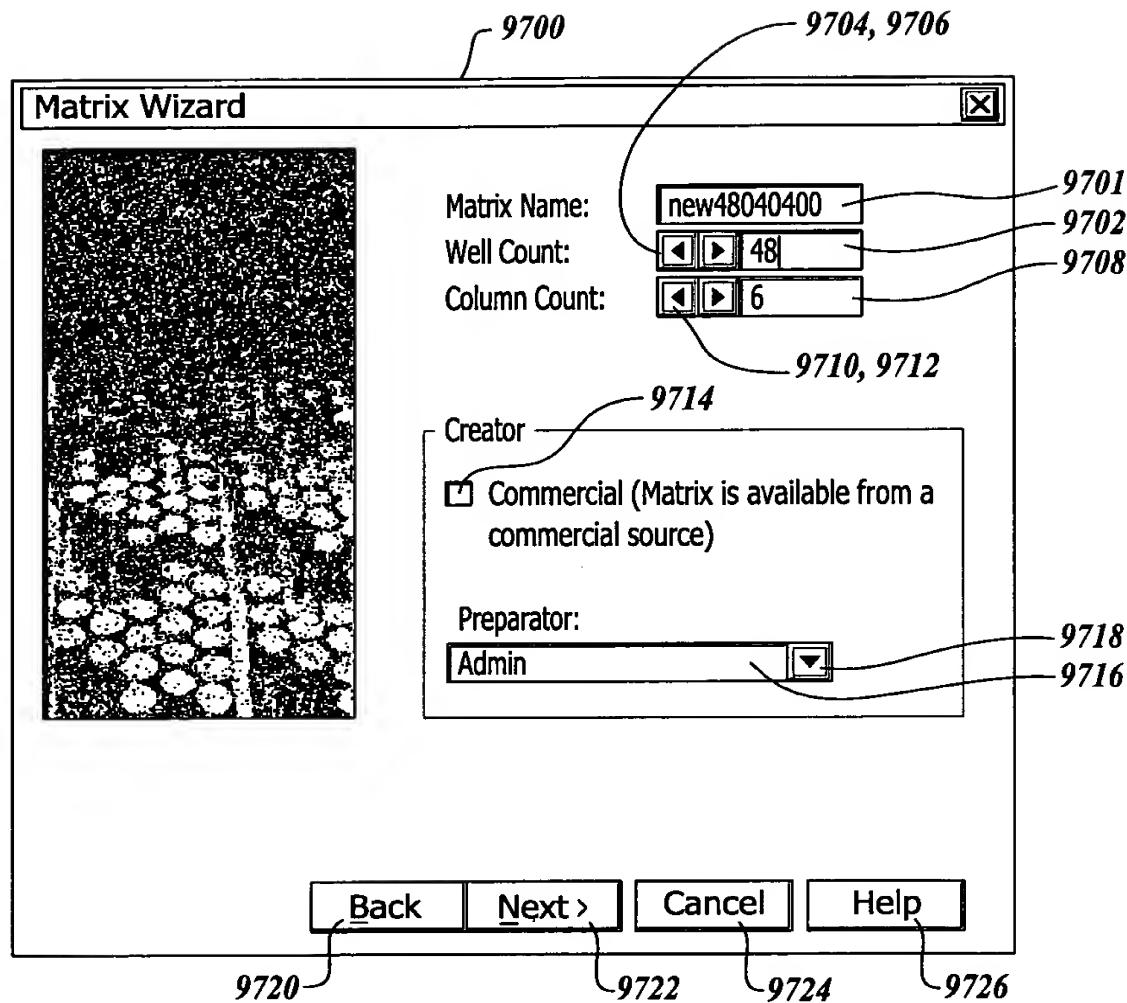


Fig. 97

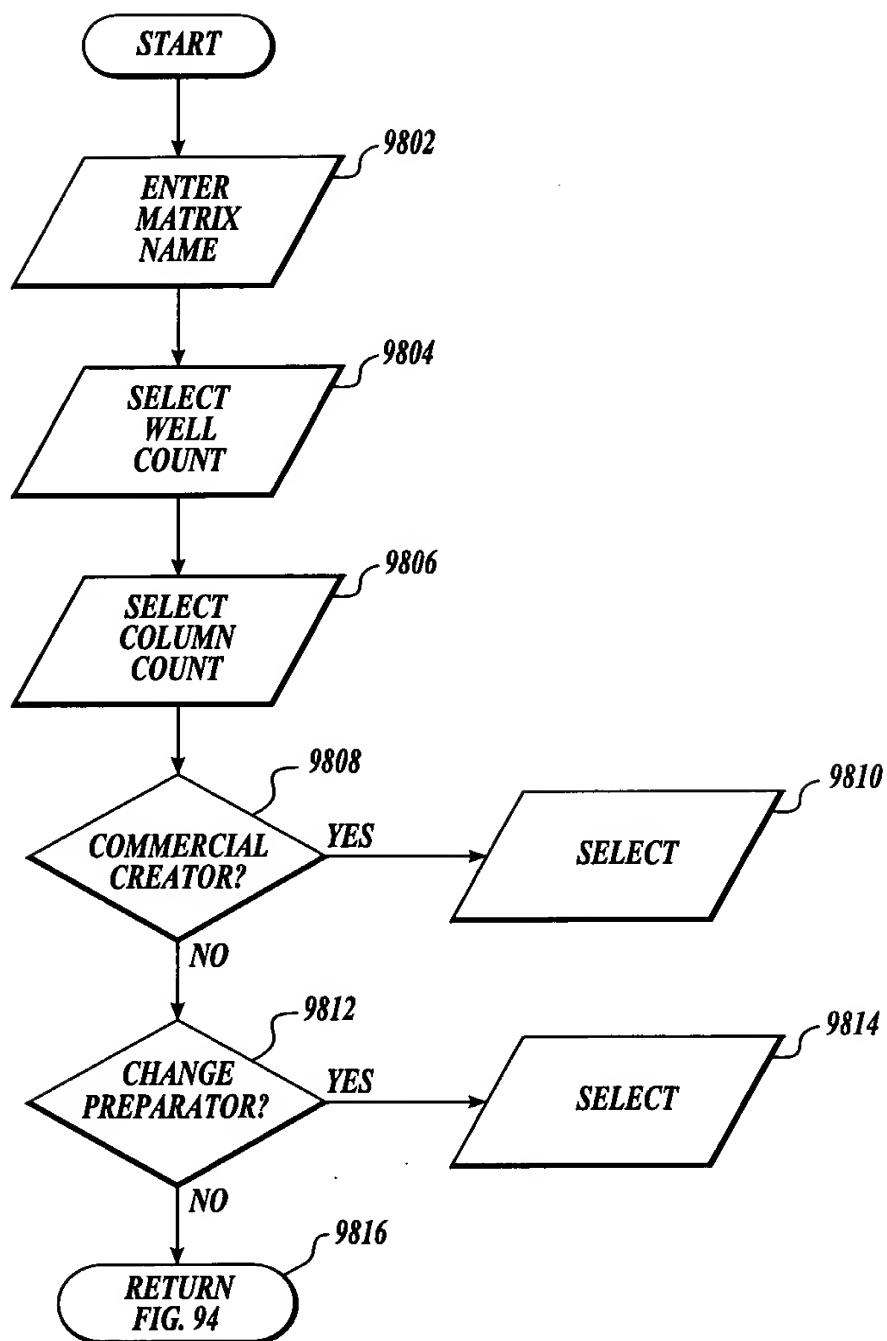


Fig. 98

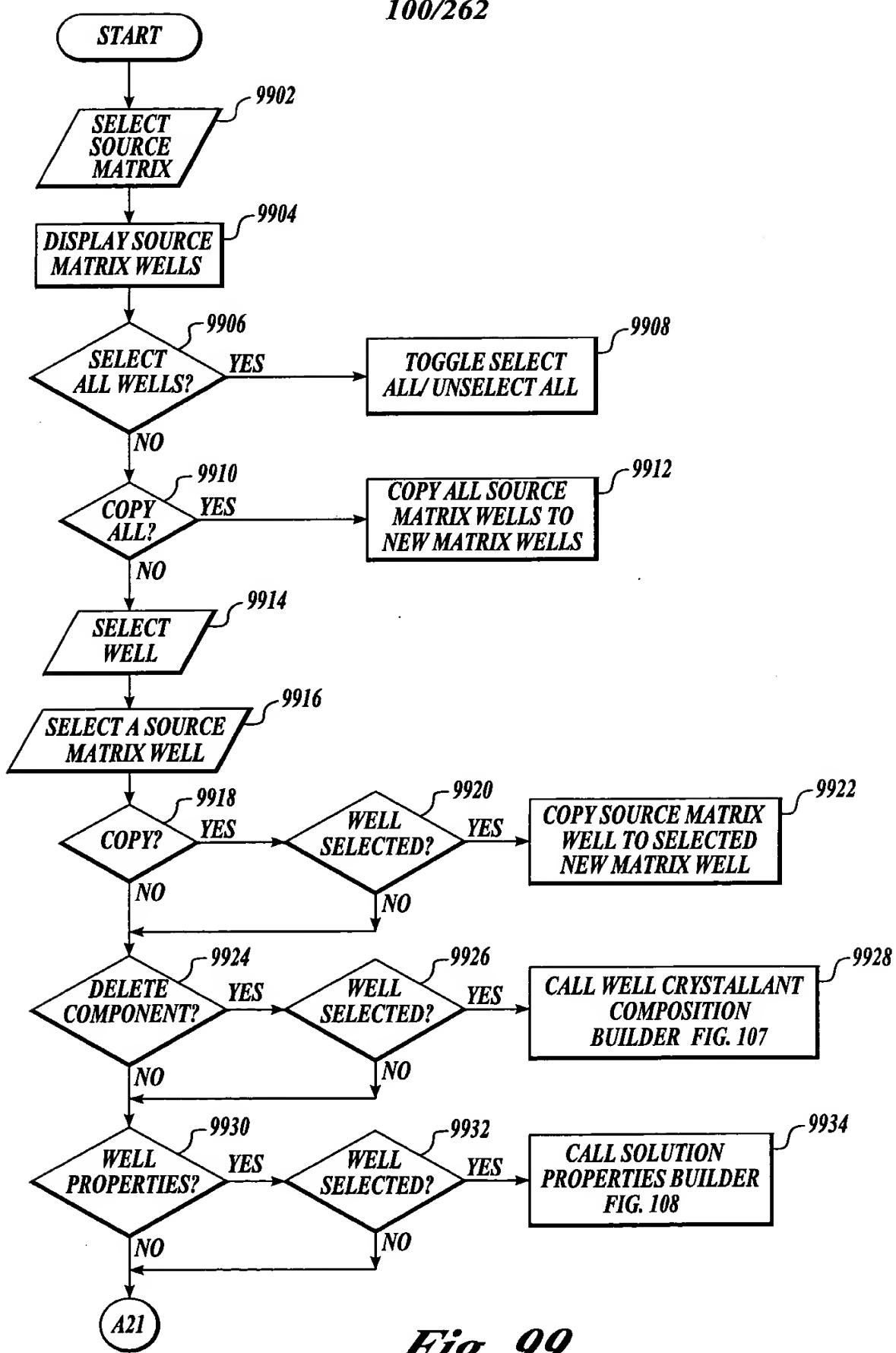


Fig. 99

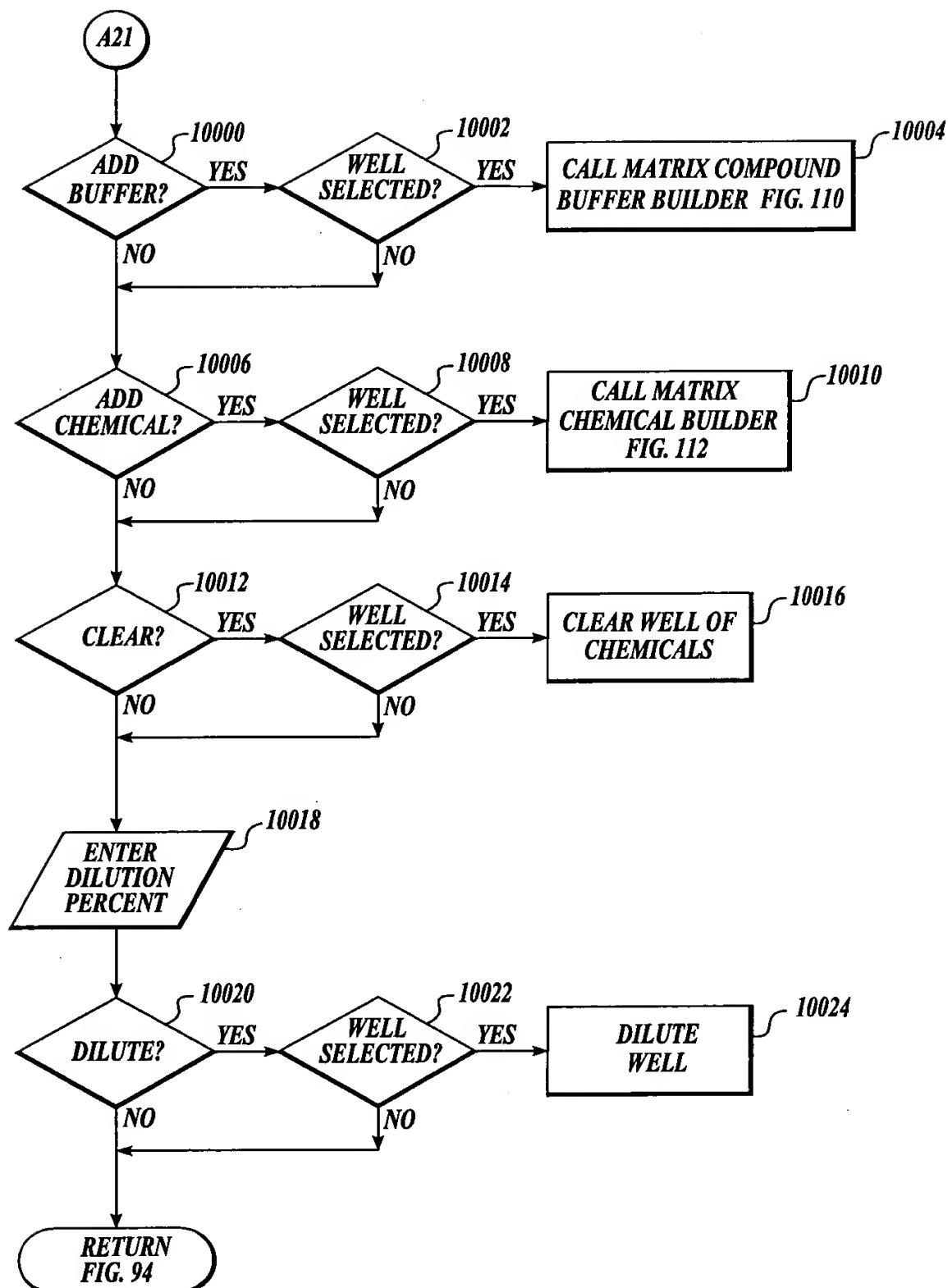
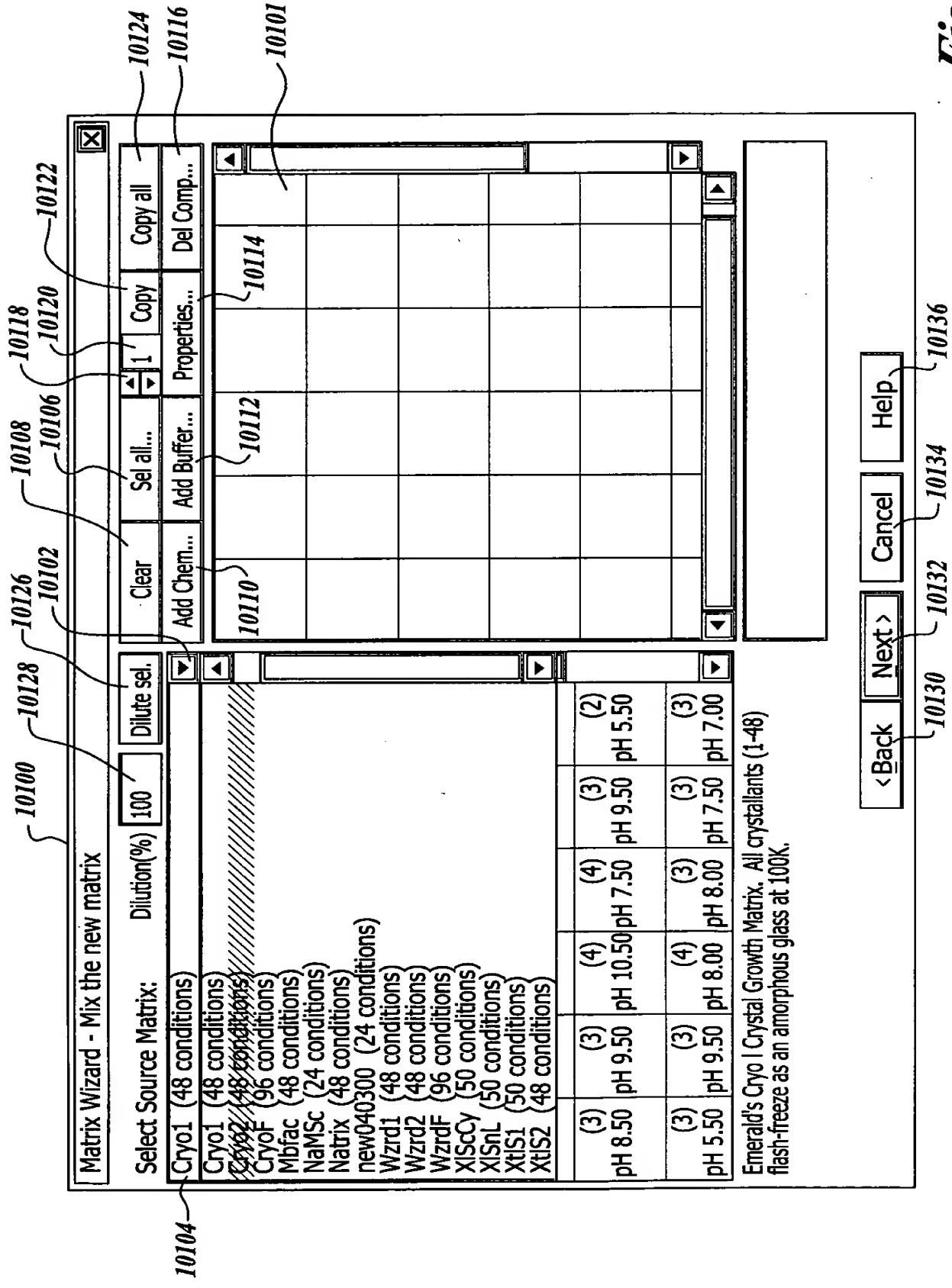


Fig. 100

Fig. 101



103/262

Fig. 102

10130 10132 10134 10136

10300

Crystallant Composition - Removal List X

Check the box for the Chemicals to remove from the selected wells:

Chemical Name	Abbreviation	Formula
<input type="checkbox"/> 2-methyl-2,4-pentanediol	MPD	C6H14O2

10304a

10301

Check the box for the Compound Buffers to remove from the selected wells:

Buffer PH	Buffering Agent	pH Conjugate
<input type="checkbox"/> 4.20	sodium phosphate dibasic (N...	citric acid monohydrate (citric...

10304b

10302

OK Cancel

10306 10308

The dialog box is titled "Crystallant Composition - Removal List". It contains two tables. The first table is for chemicals, with a single row showing "2-methyl-2,4-pentanediol" with checkboxes for "MPD" and "C6H14O2". The second table is for compound buffers, with a single row showing "4.20" with checkboxes for "sodium phosphate dibasic (N...)" and "citric acid monohydrate (citric...)". Both tables have scroll bars. At the bottom are "OK" and "Cancel" buttons.

Fig. 103

105/262

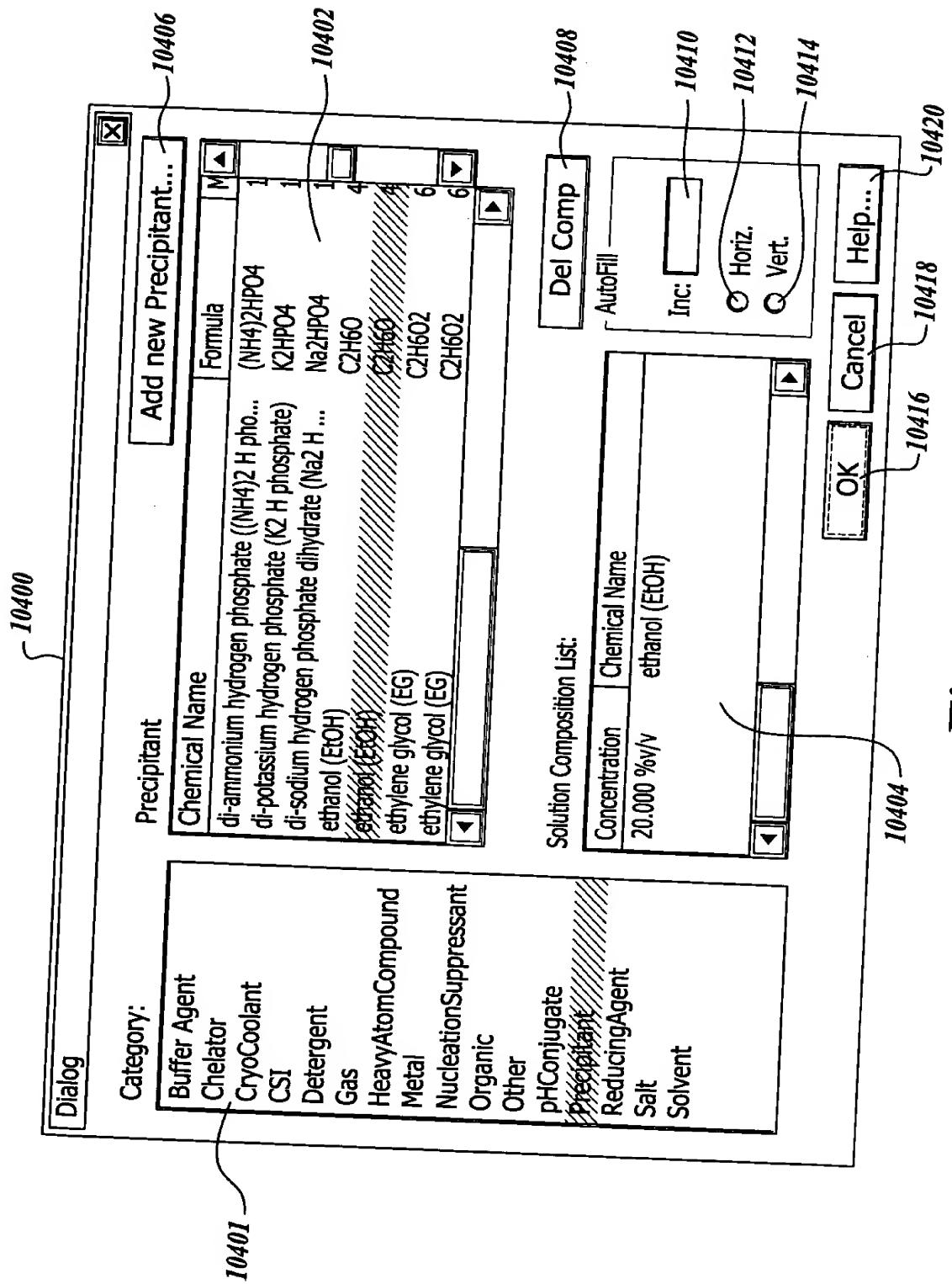


Fig. 104

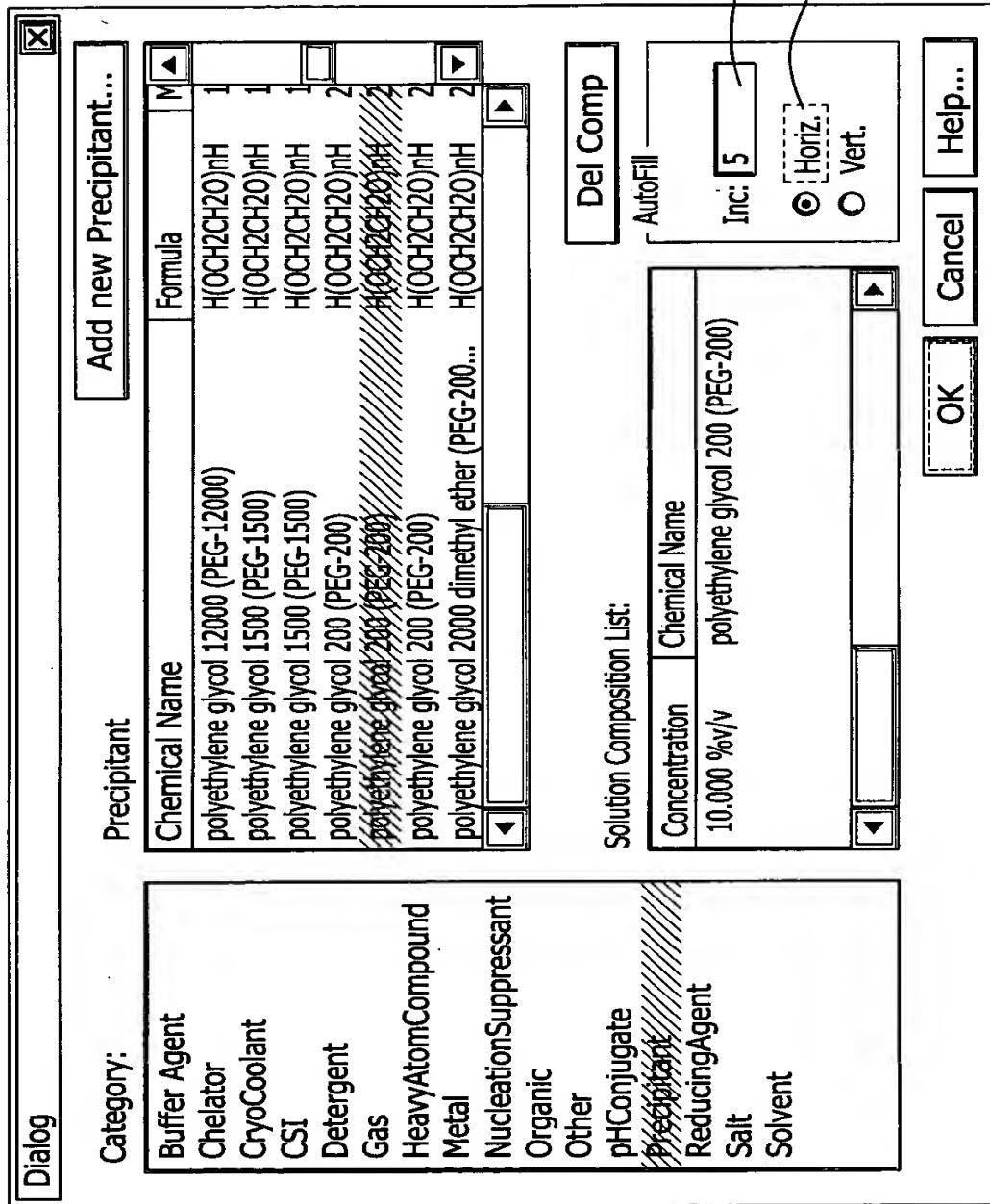


Fig. 105

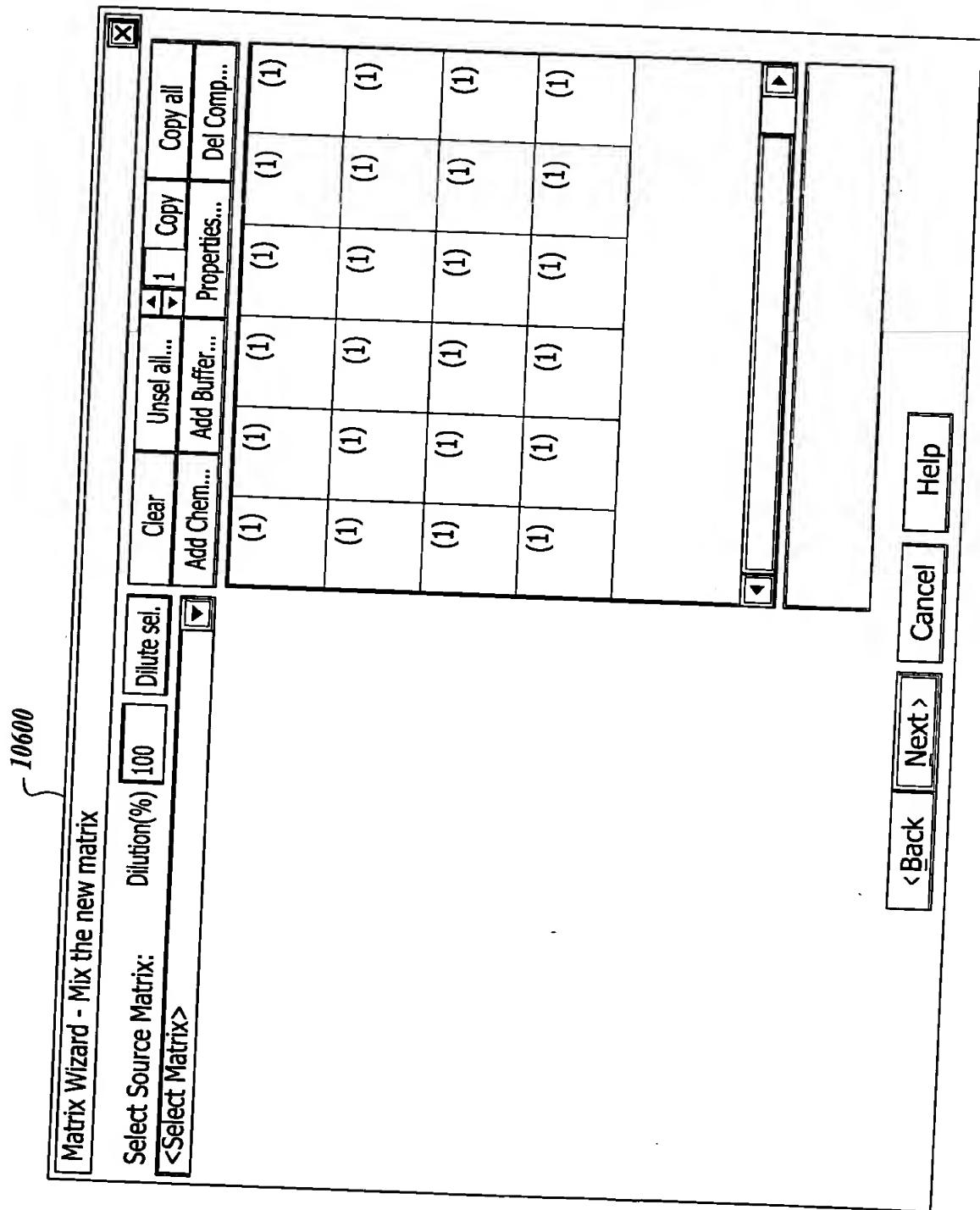


Fig. 106

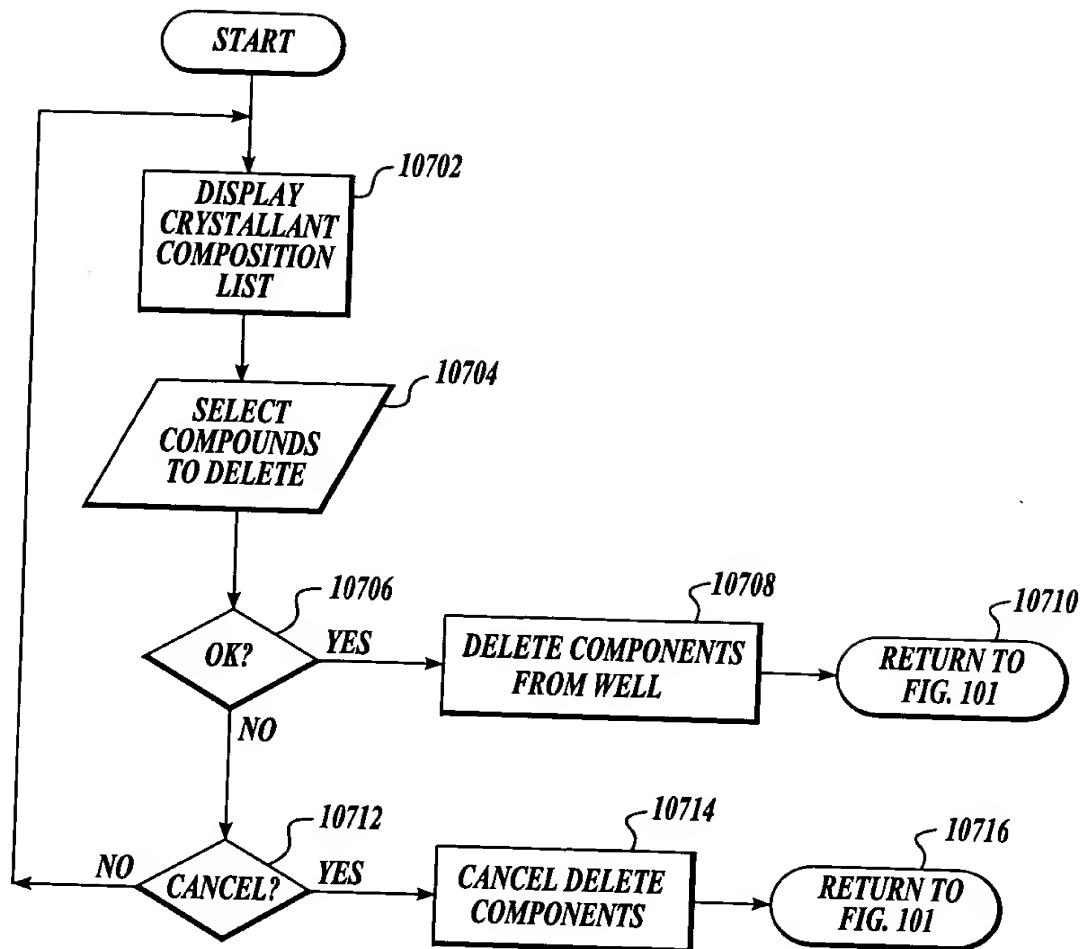


Fig. 107

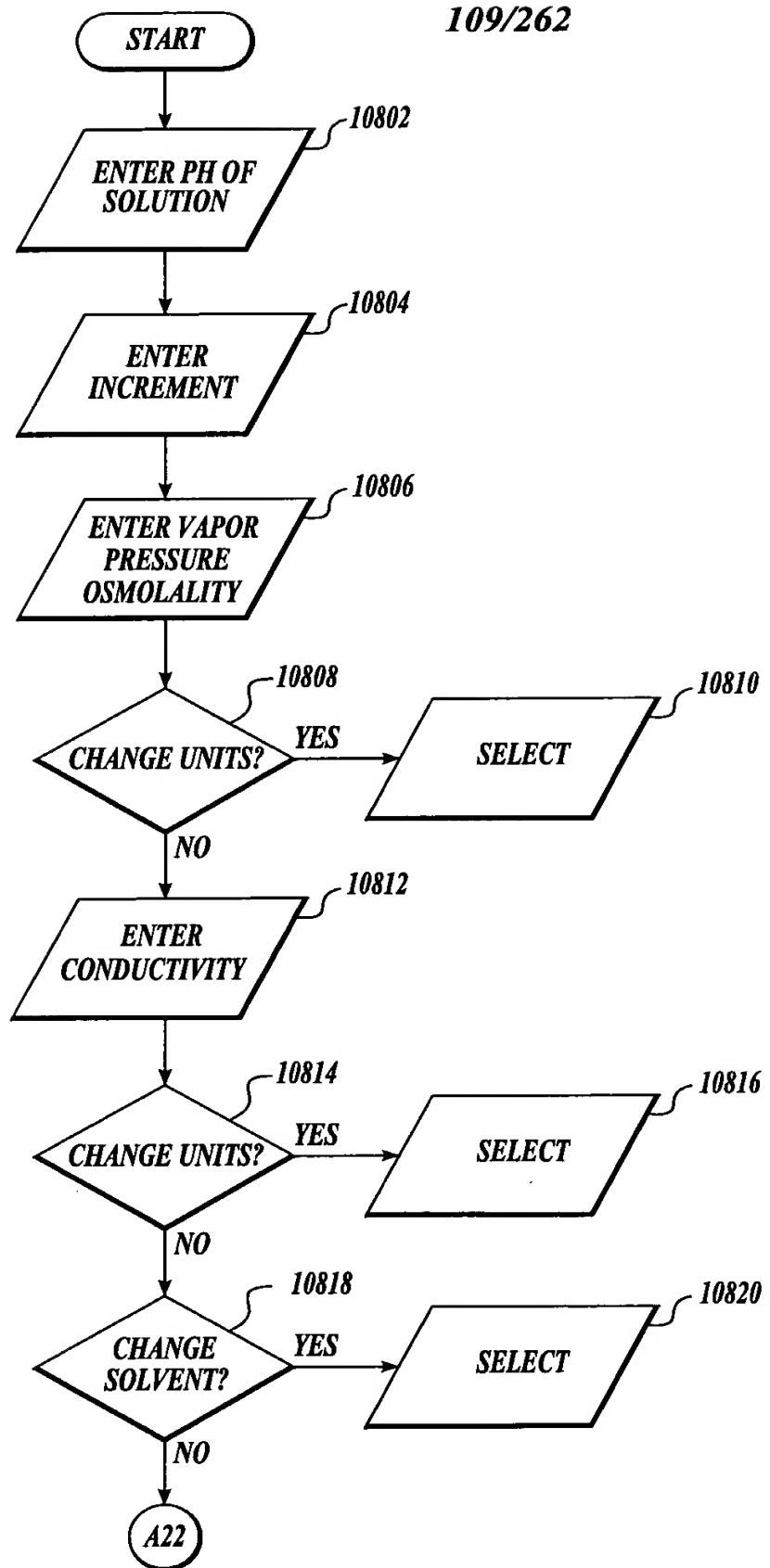
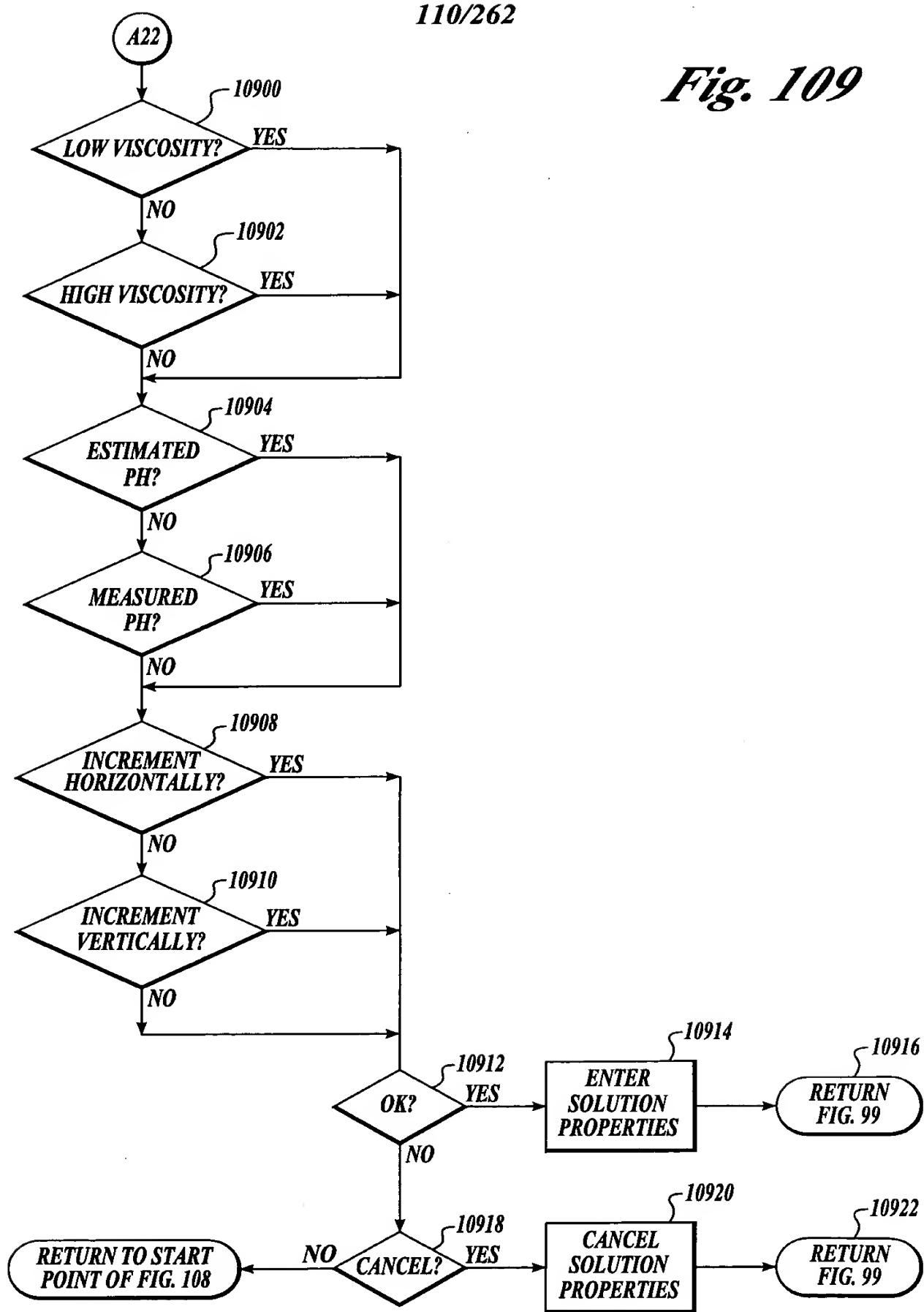


Fig. 108

Fig. 109



START

111/262

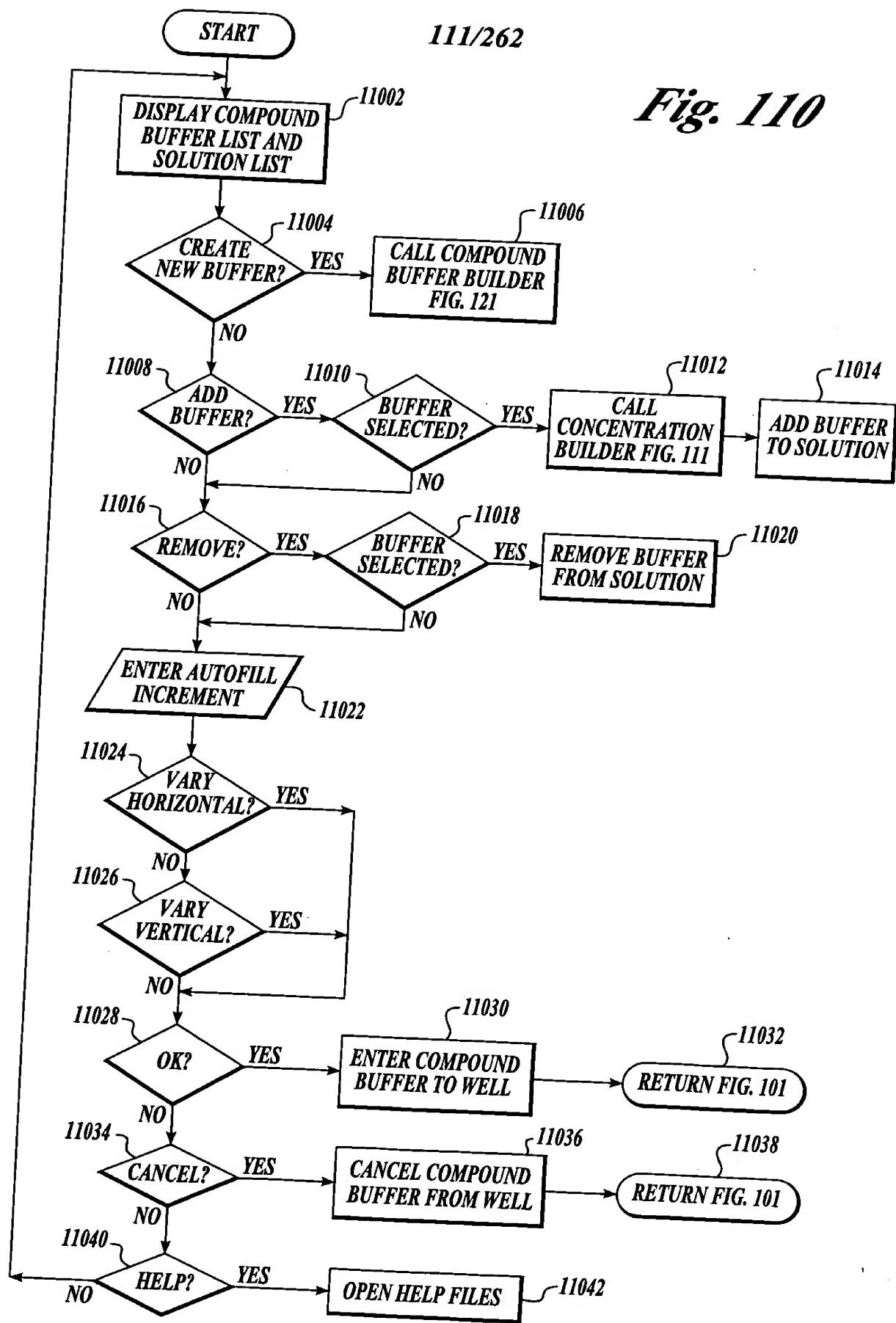


Fig. 110

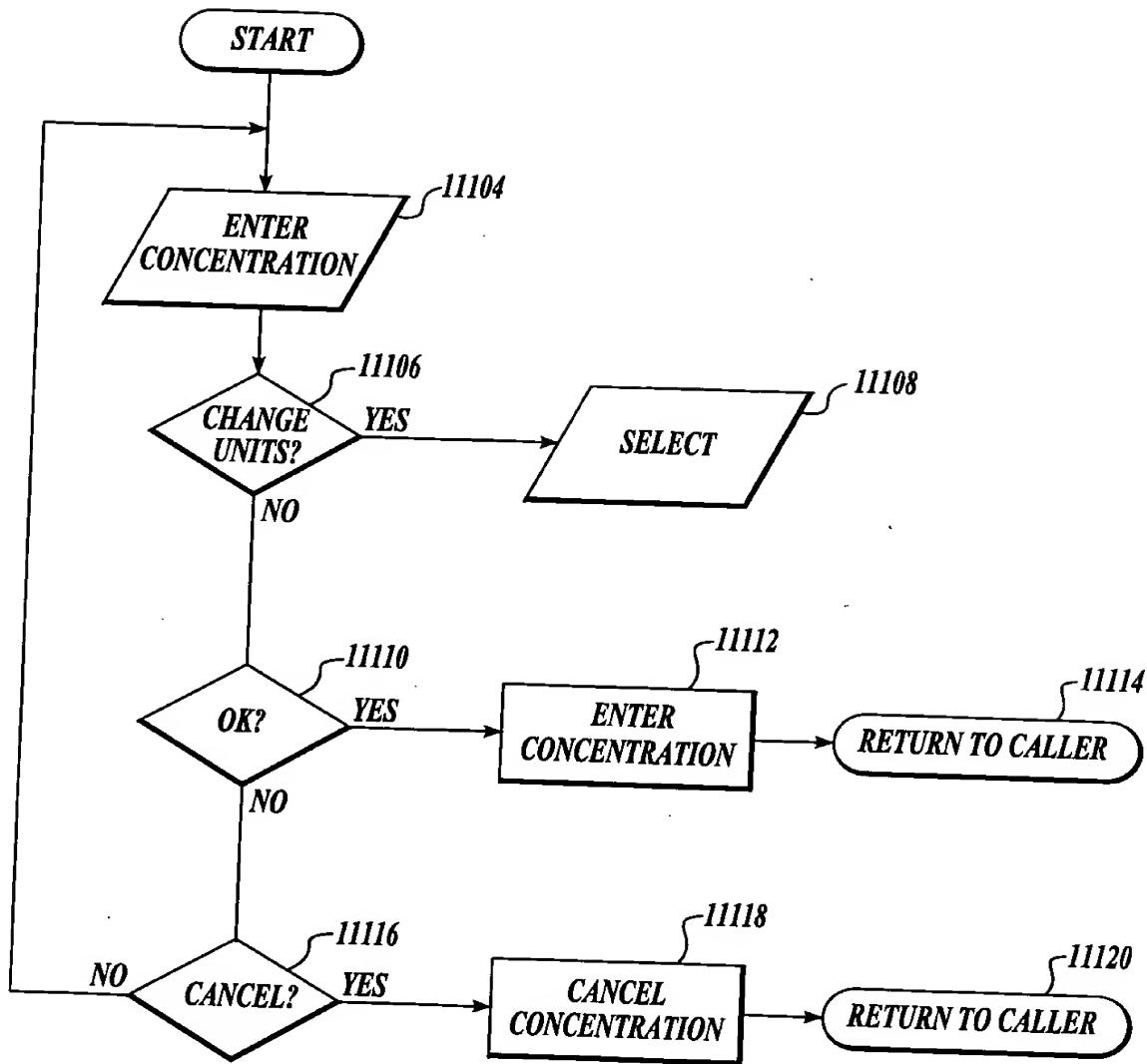


Fig. III

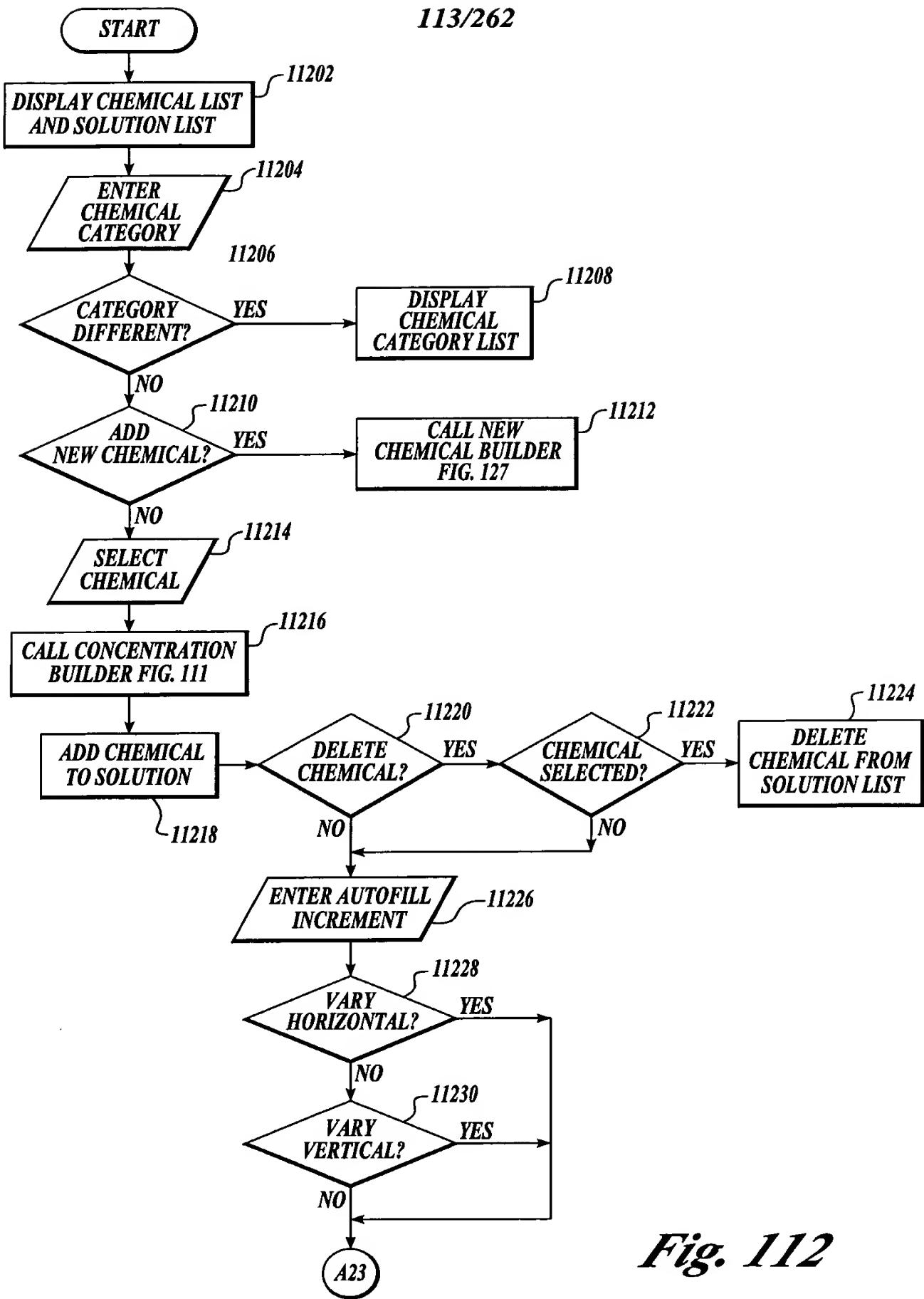


Fig. 112

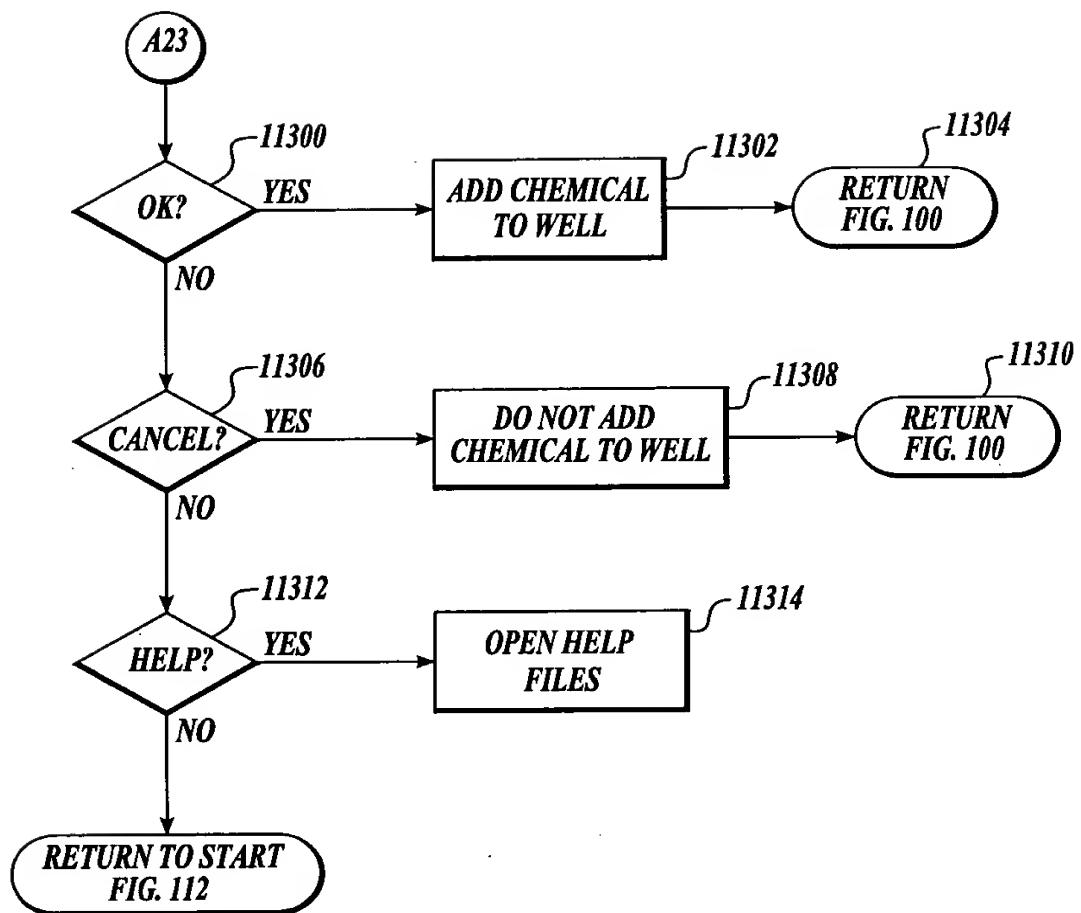


Fig. 113

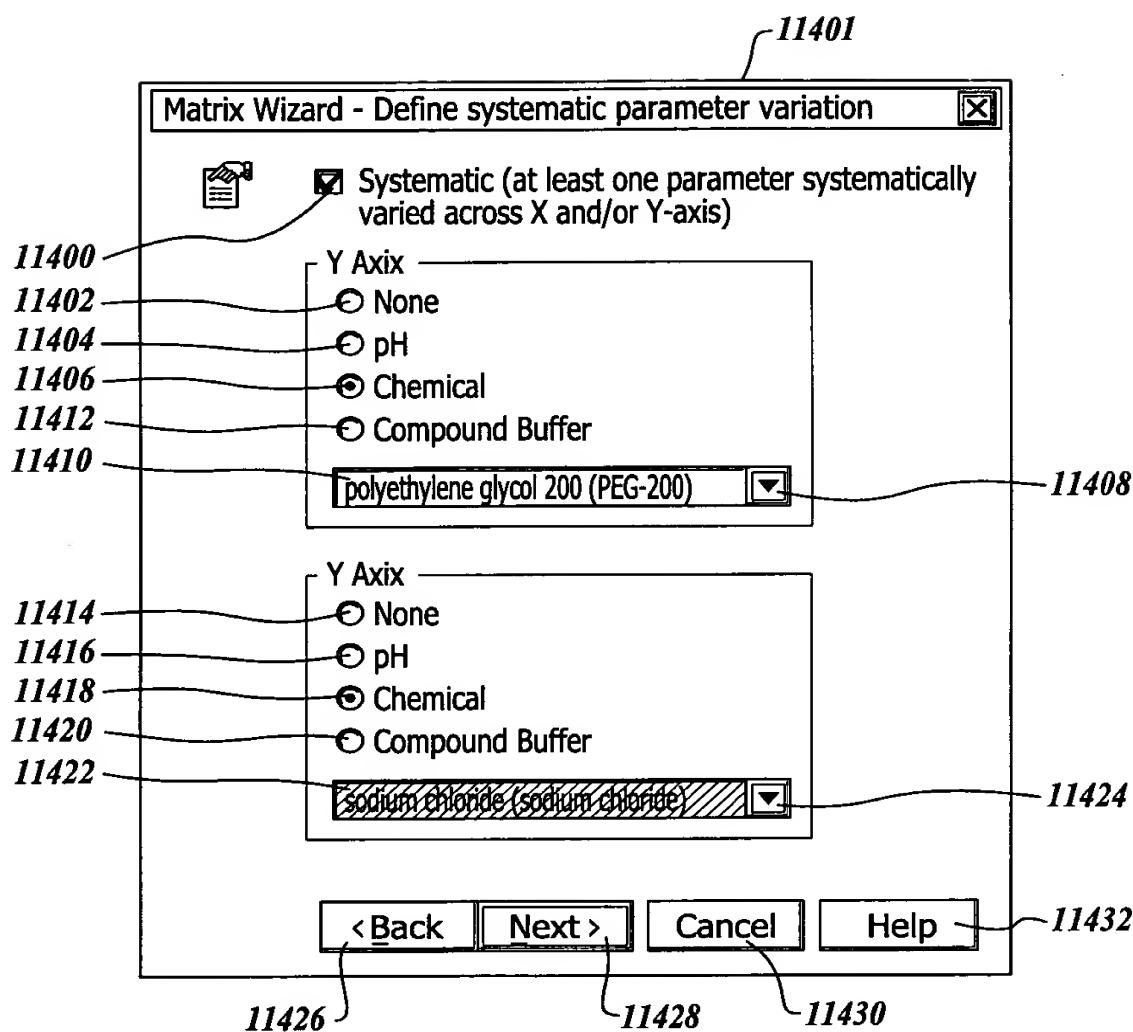


Fig. 114

116/262

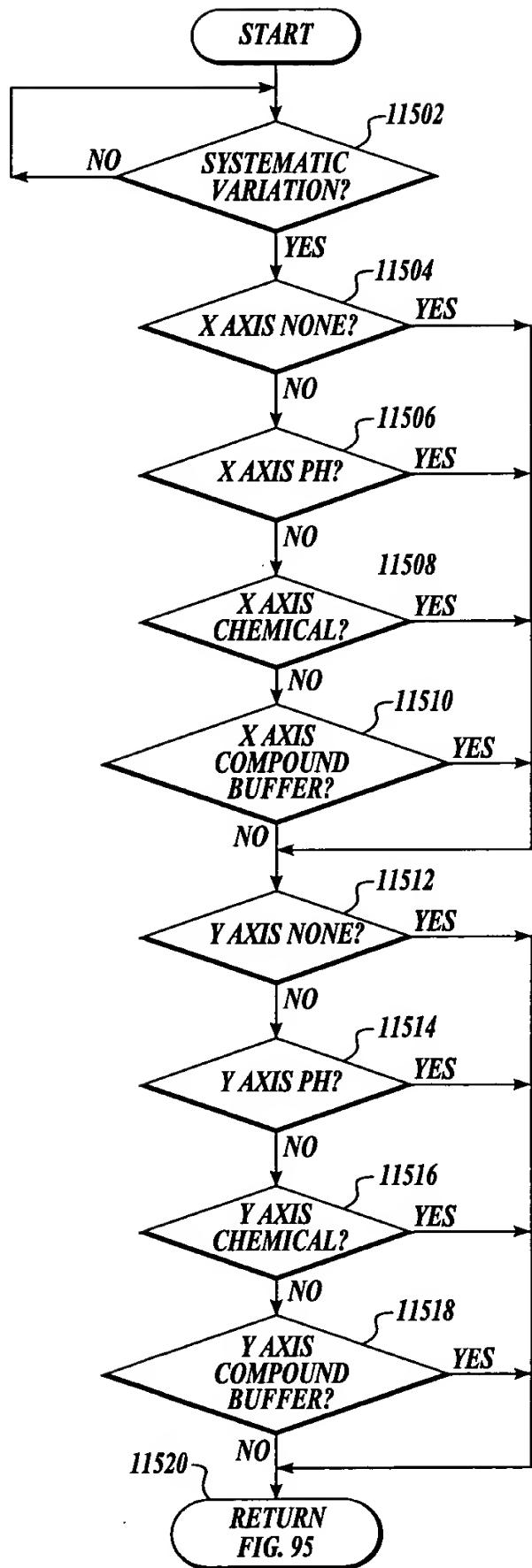
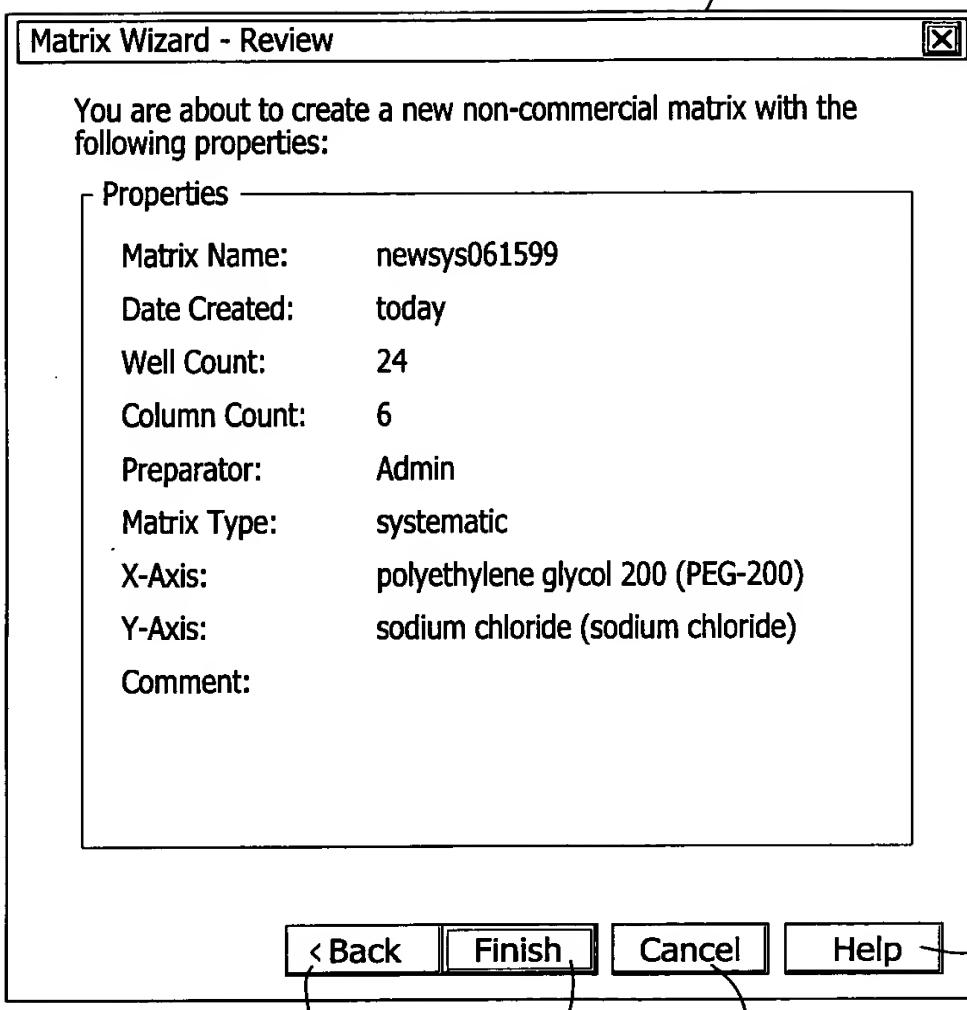


Fig. 115

117/262

11600



11601

11602

11604

11606

Fig. 116

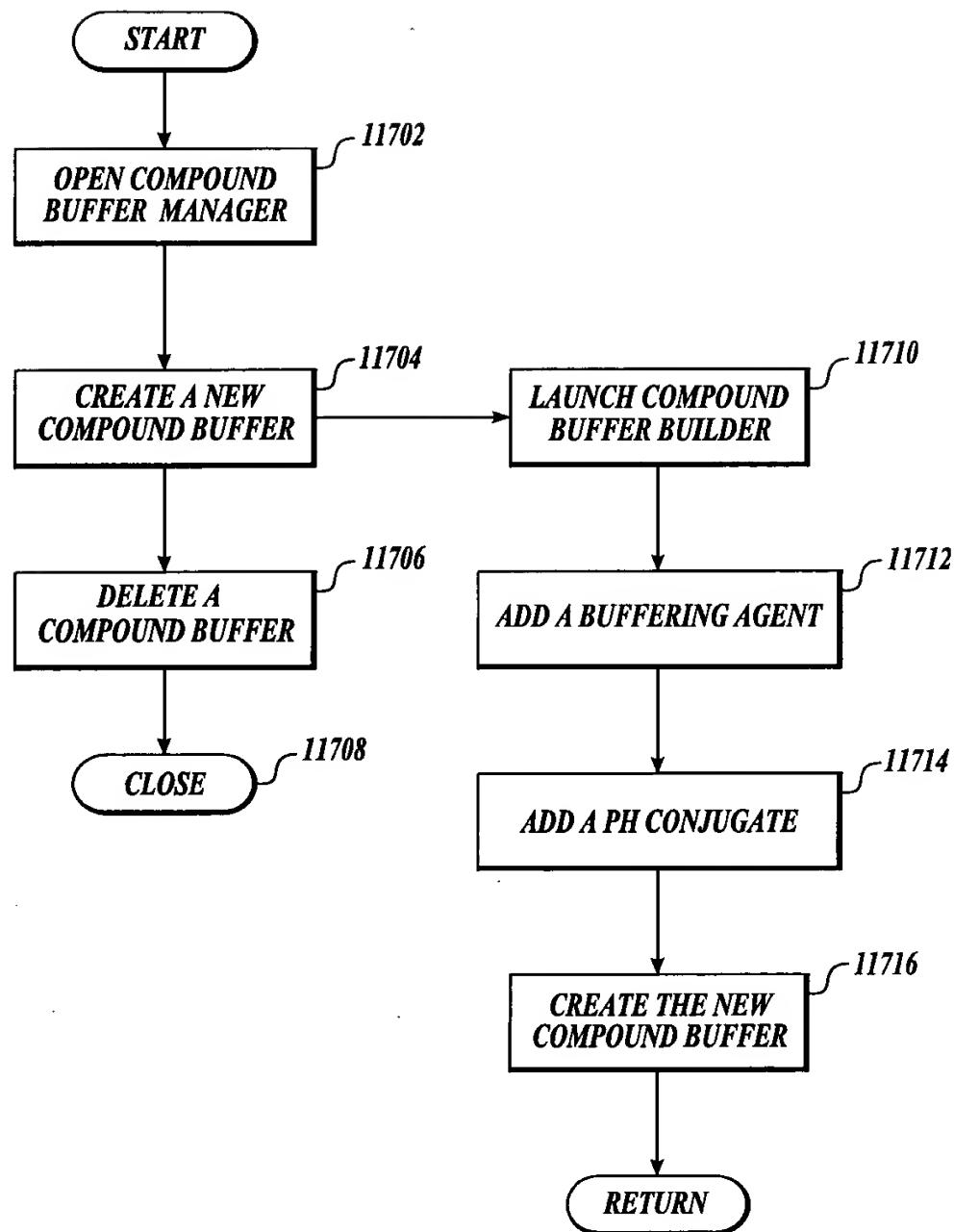


Fig. 117

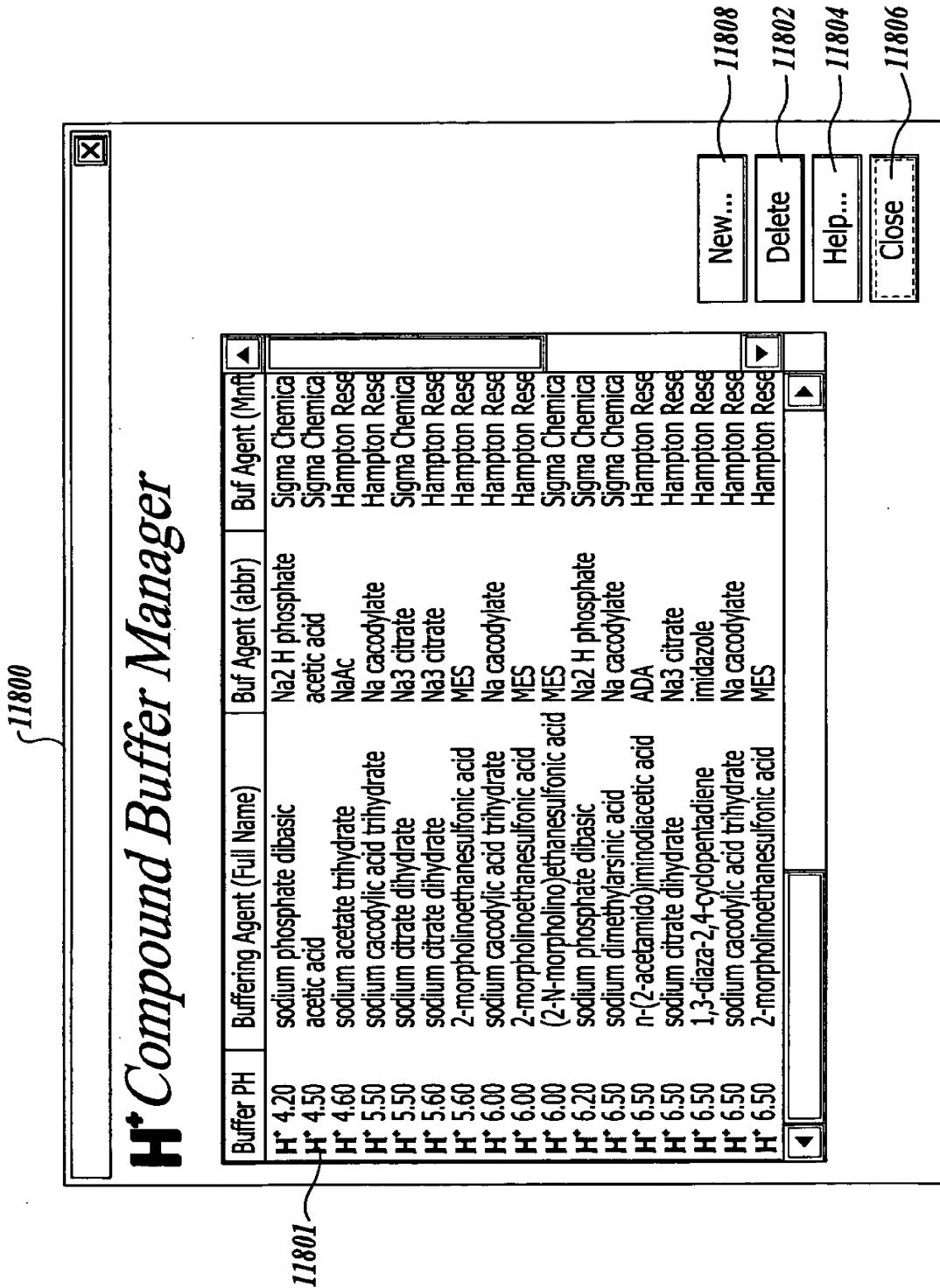


Fig. 118

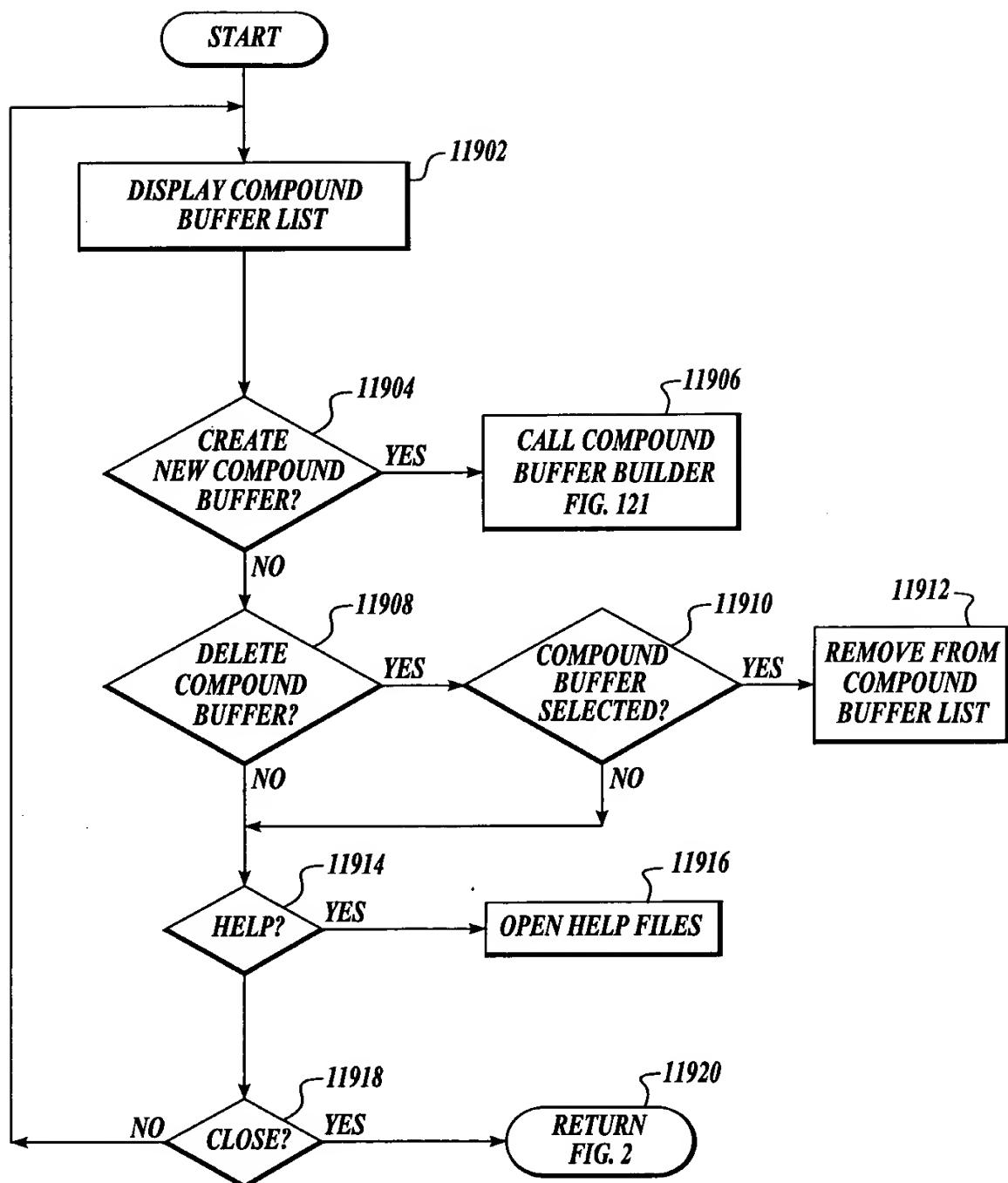


Fig. 119

121/262

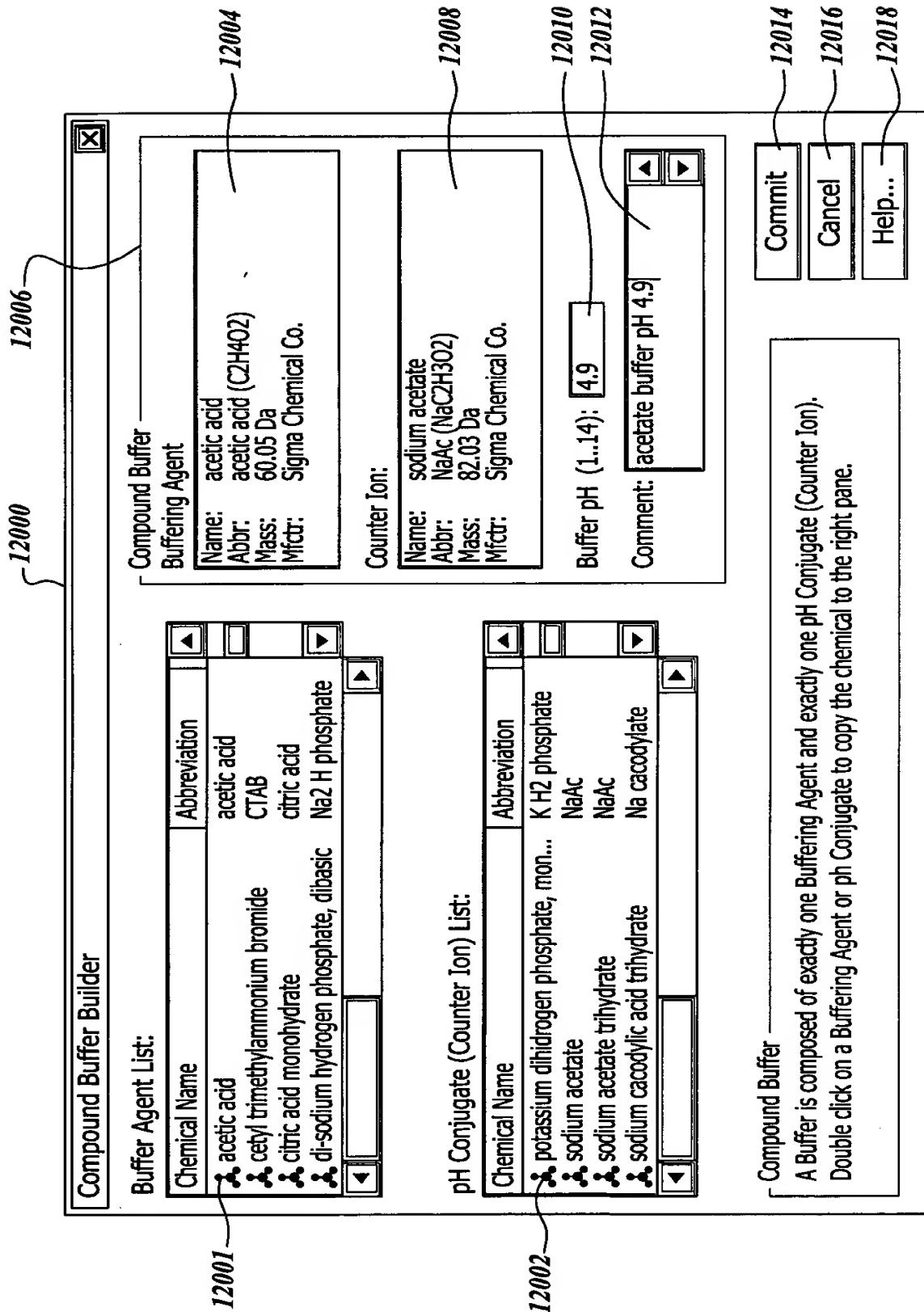


Fig. 120

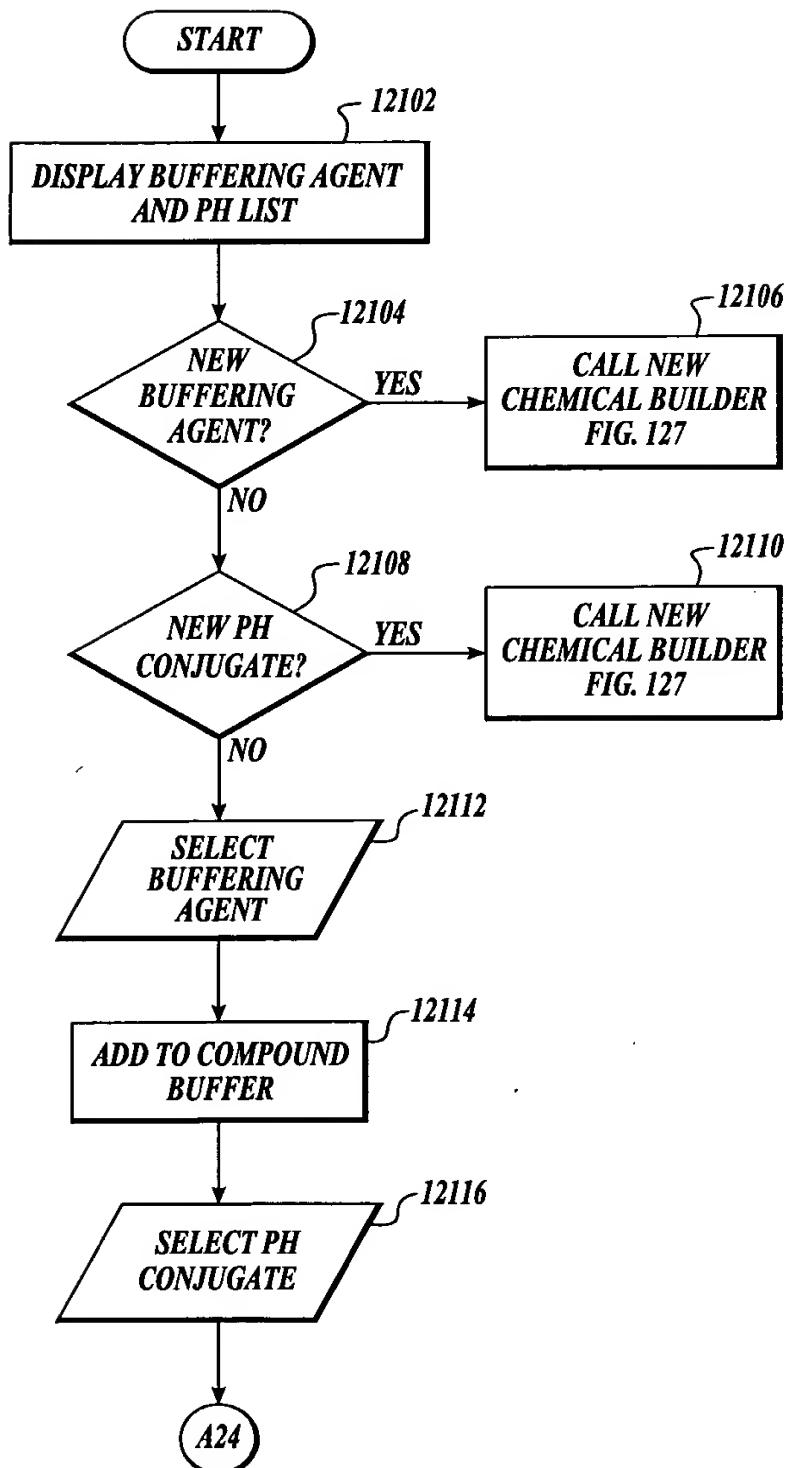


Fig. 121

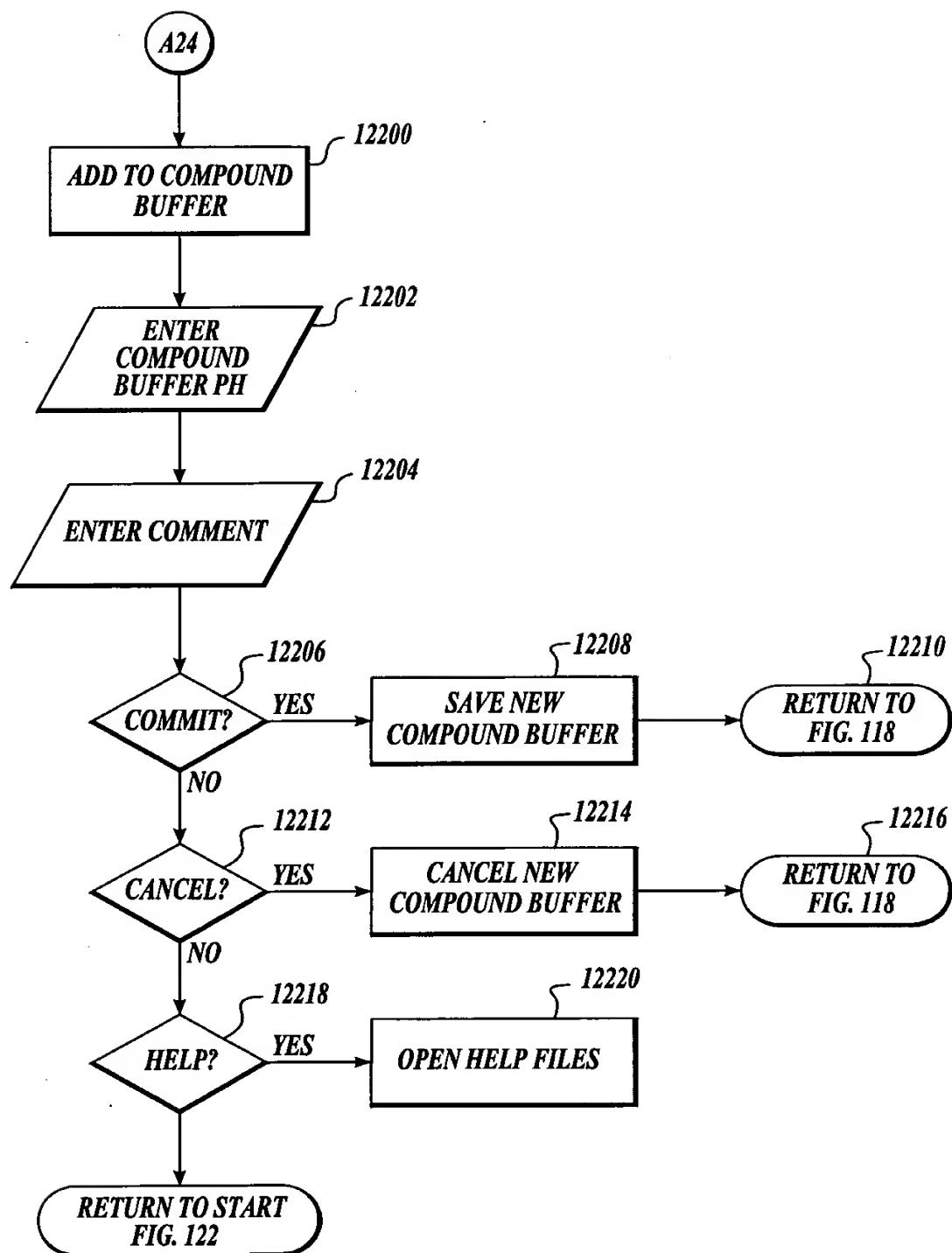


Fig. 122

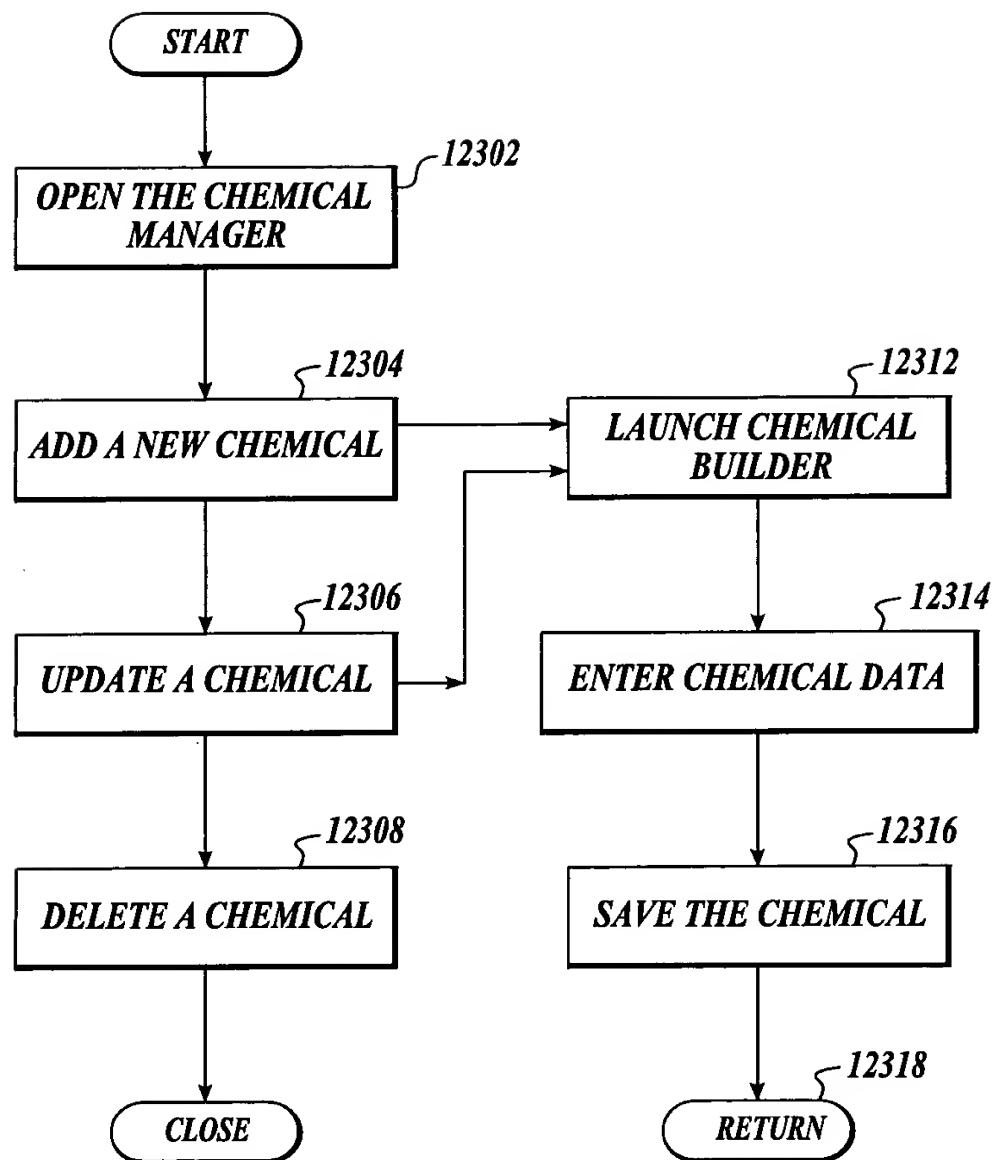


Fig. 123

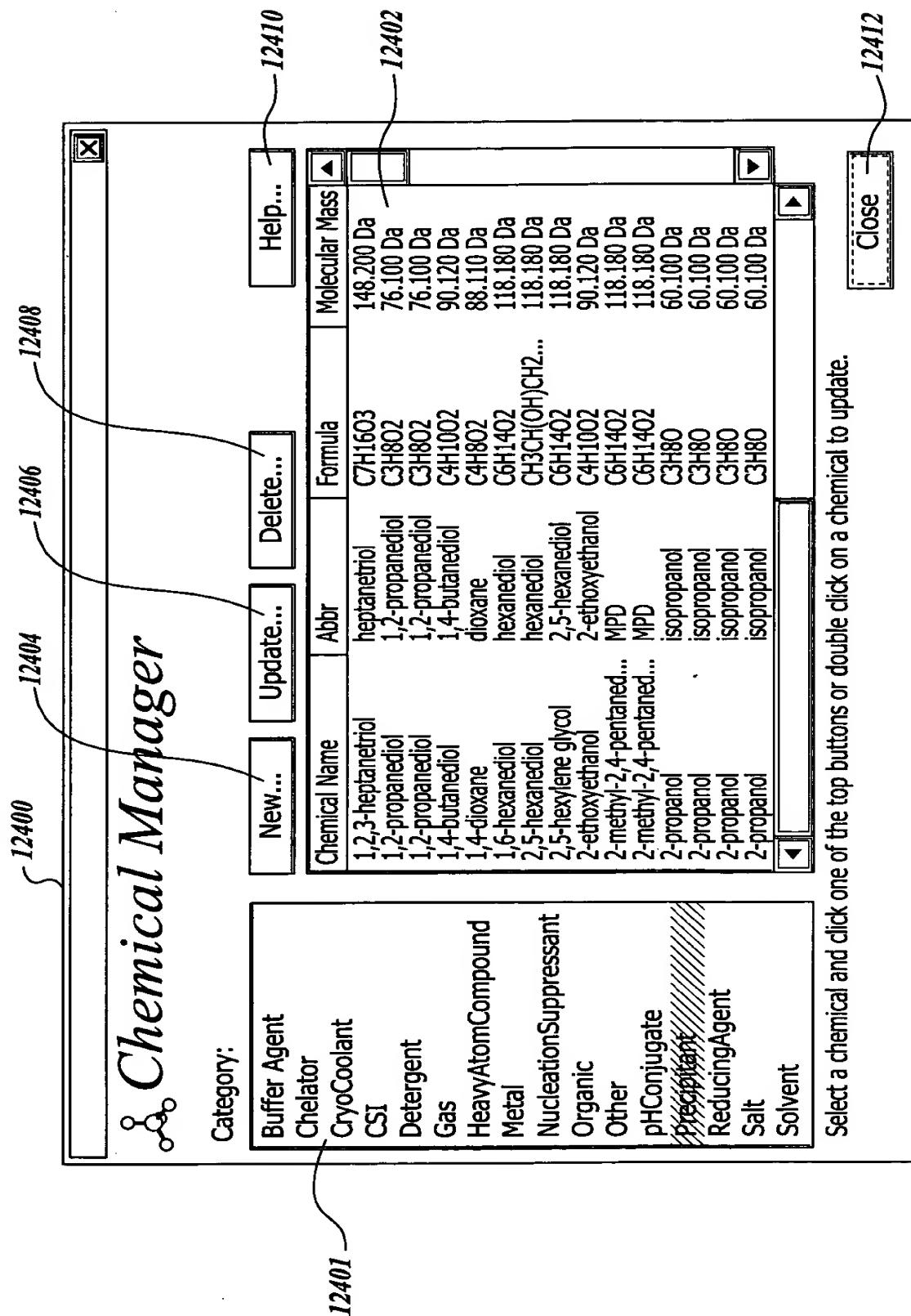


Fig. 124

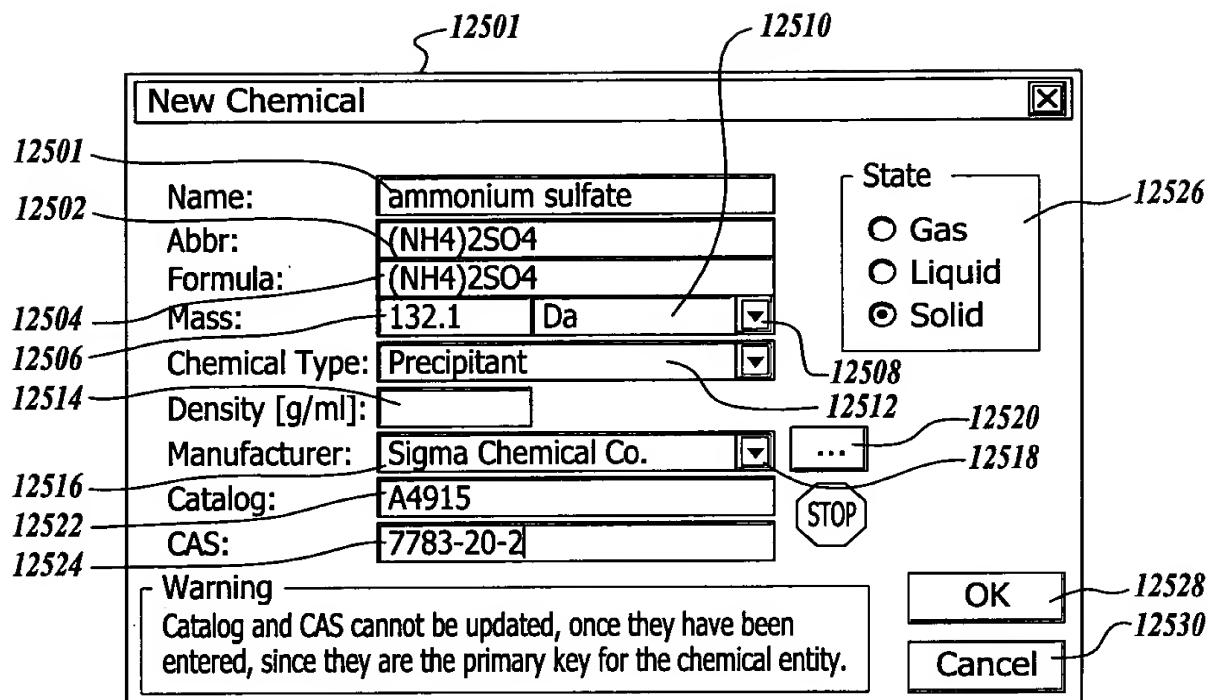


Fig. 125

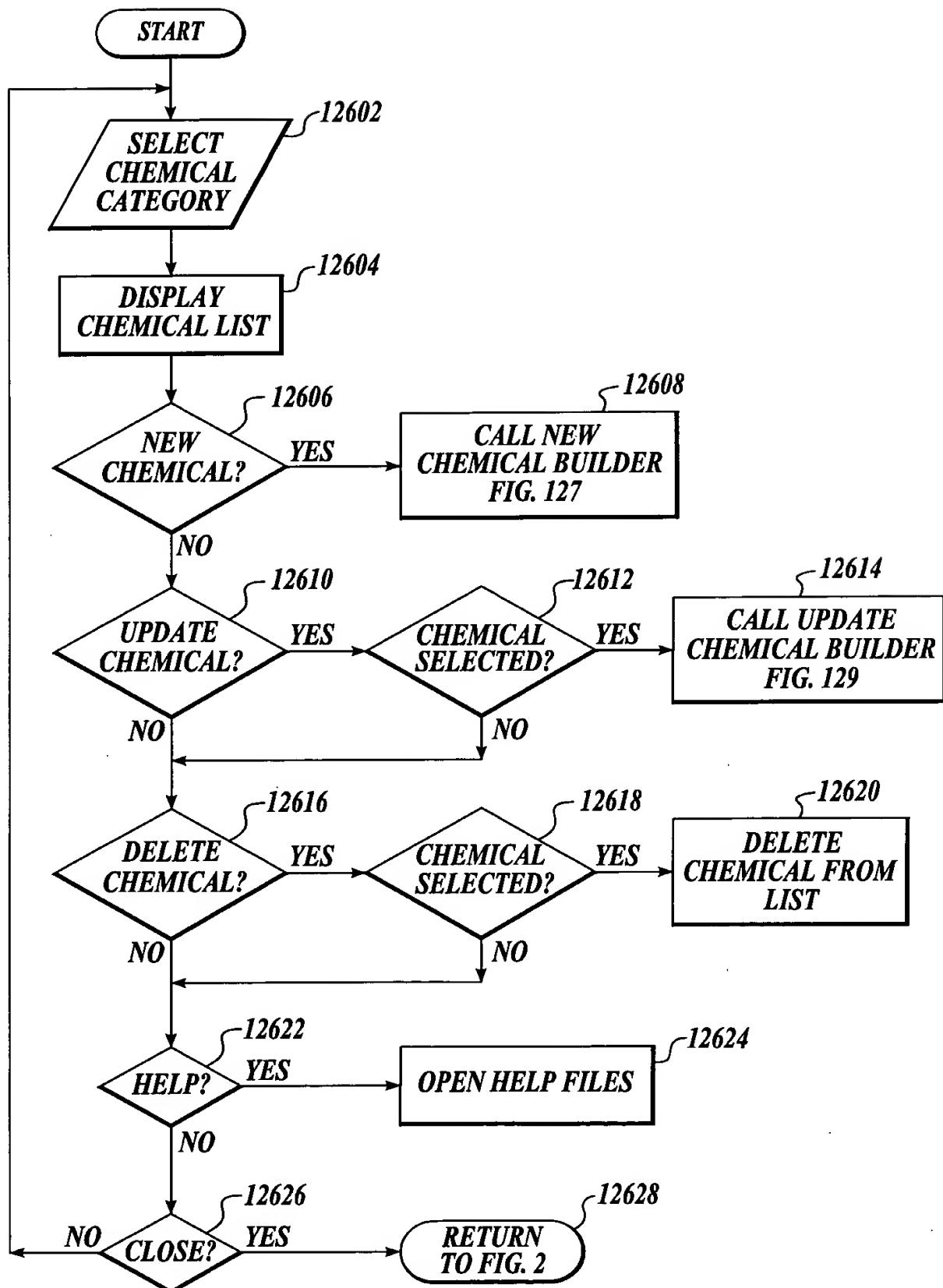


Fig. 126

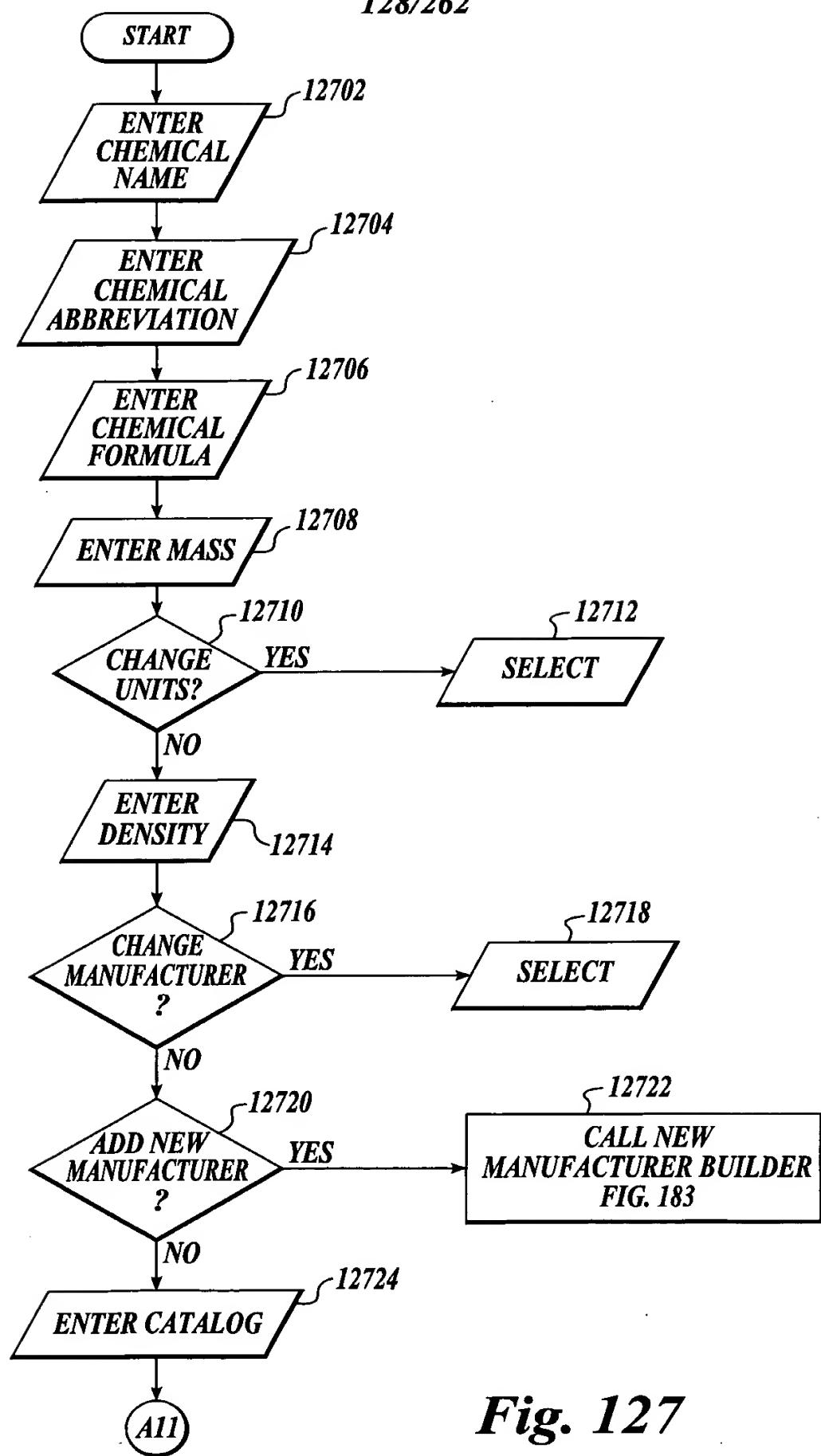


Fig. 127

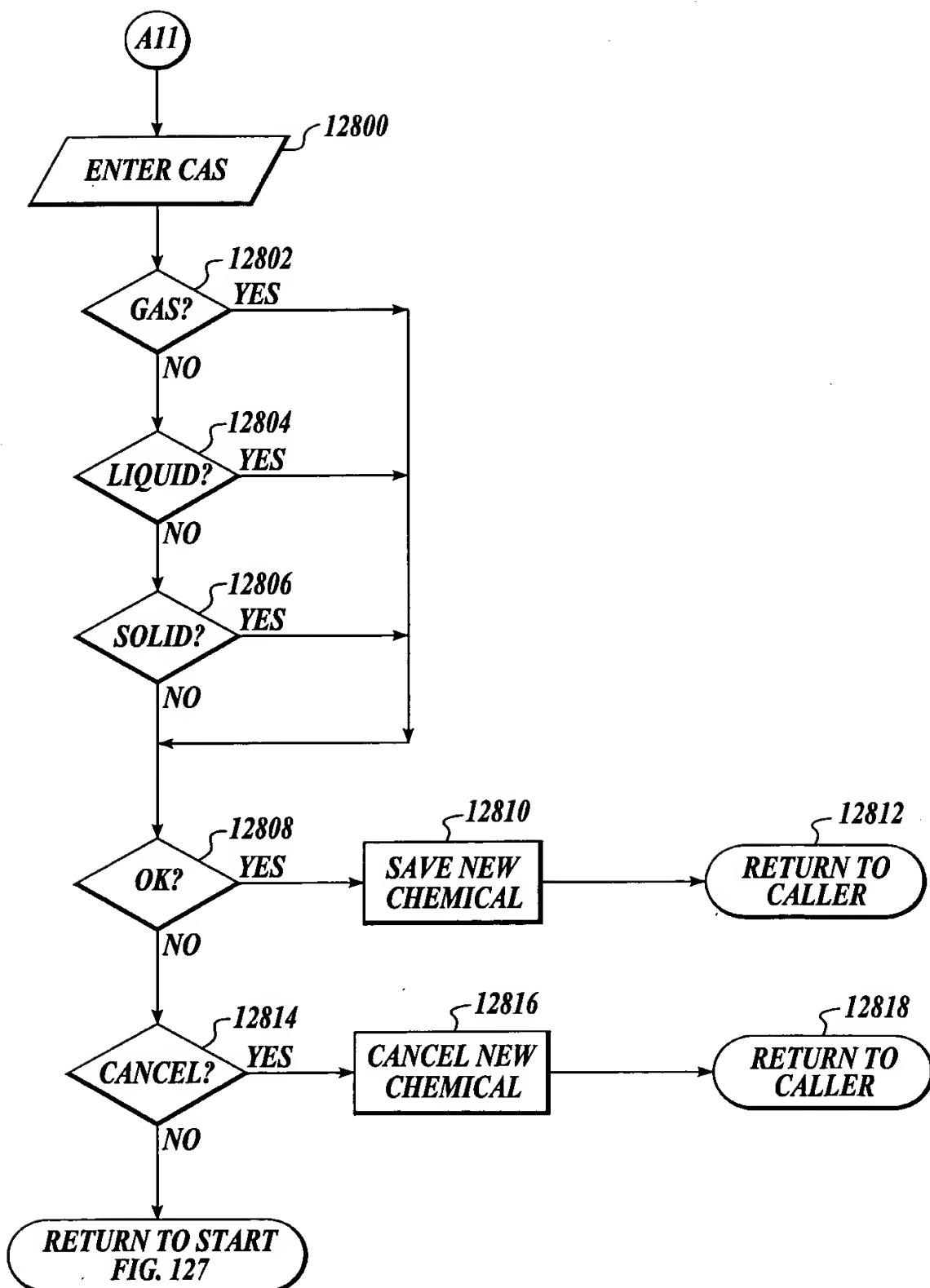


Fig. 128

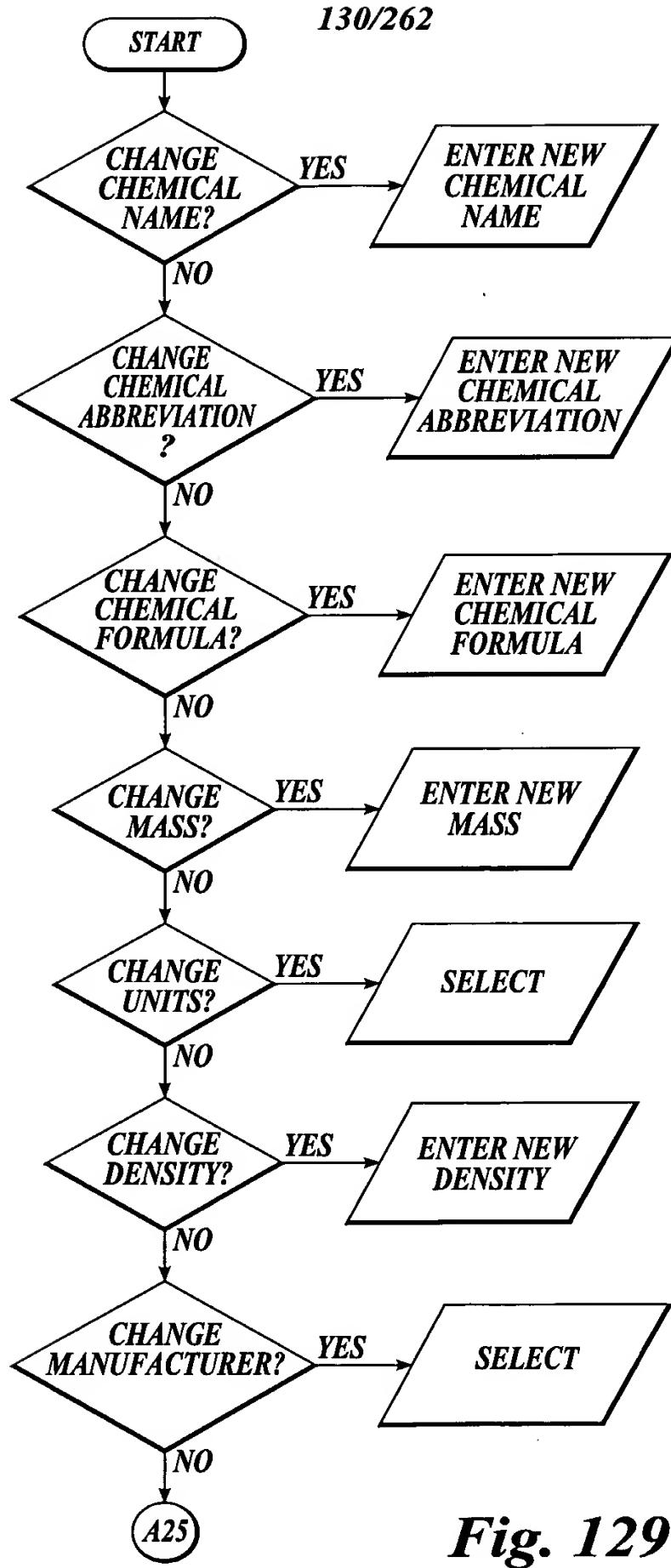


Fig. 129

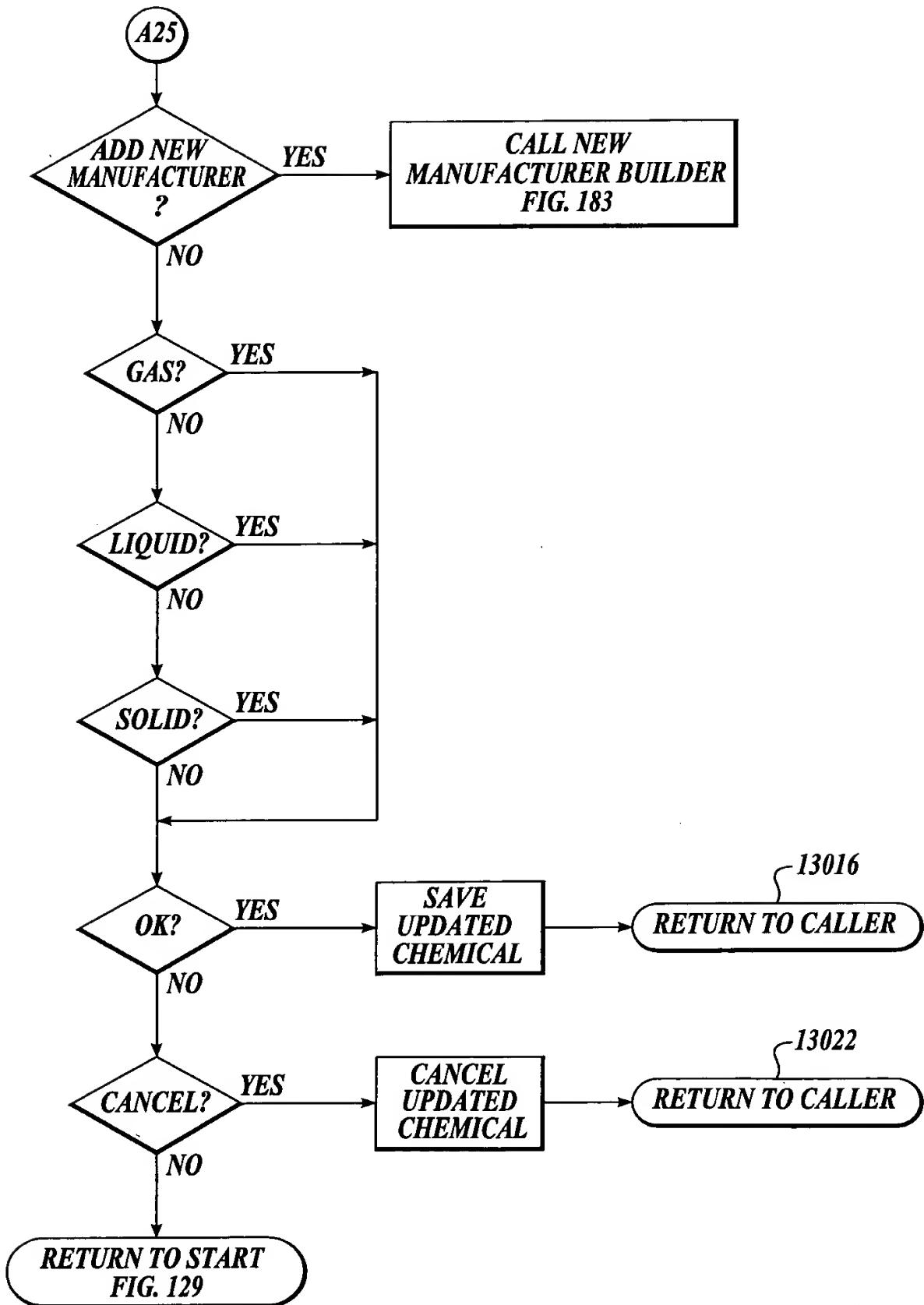


Fig. 130

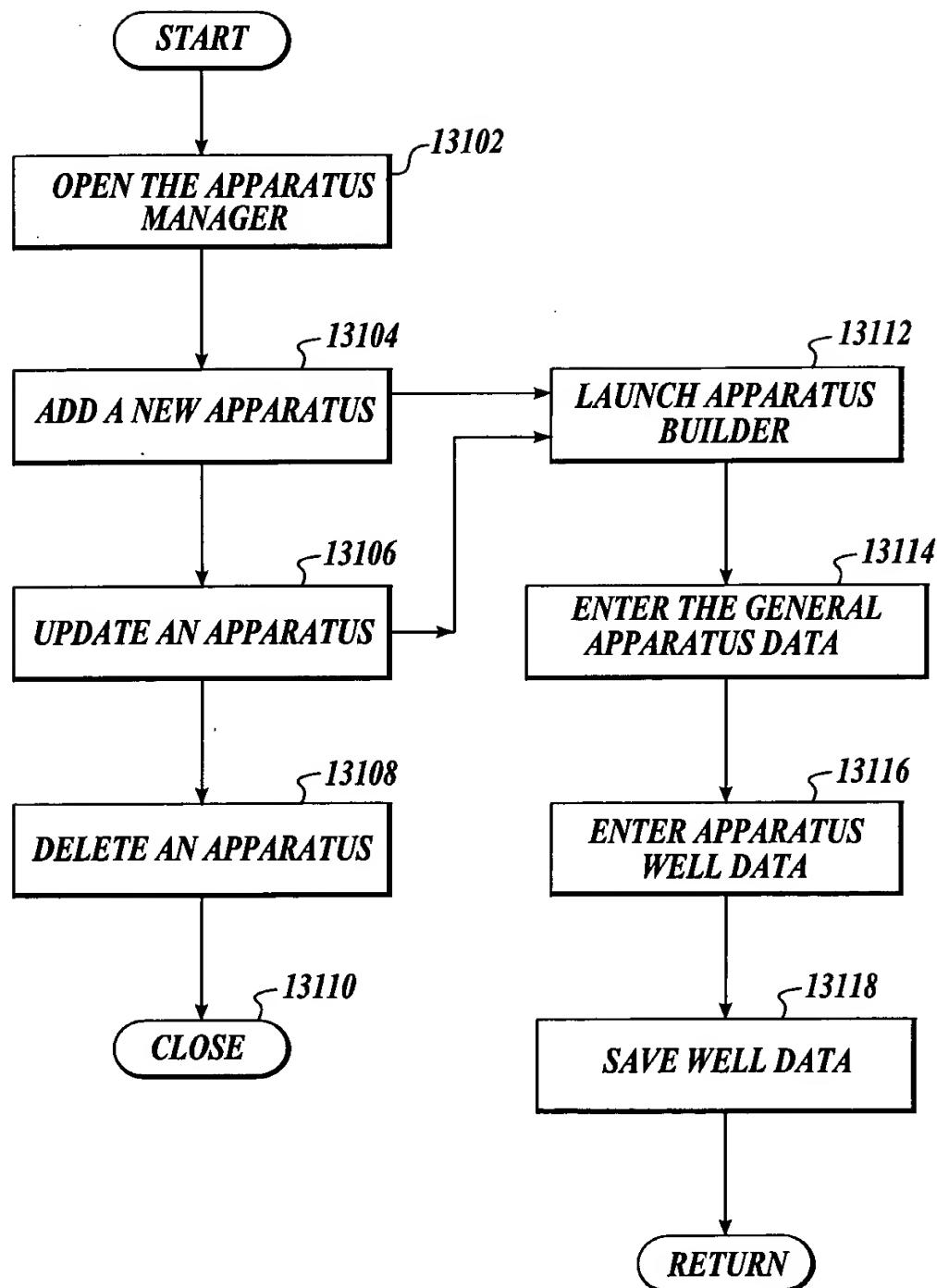


Fig. 131

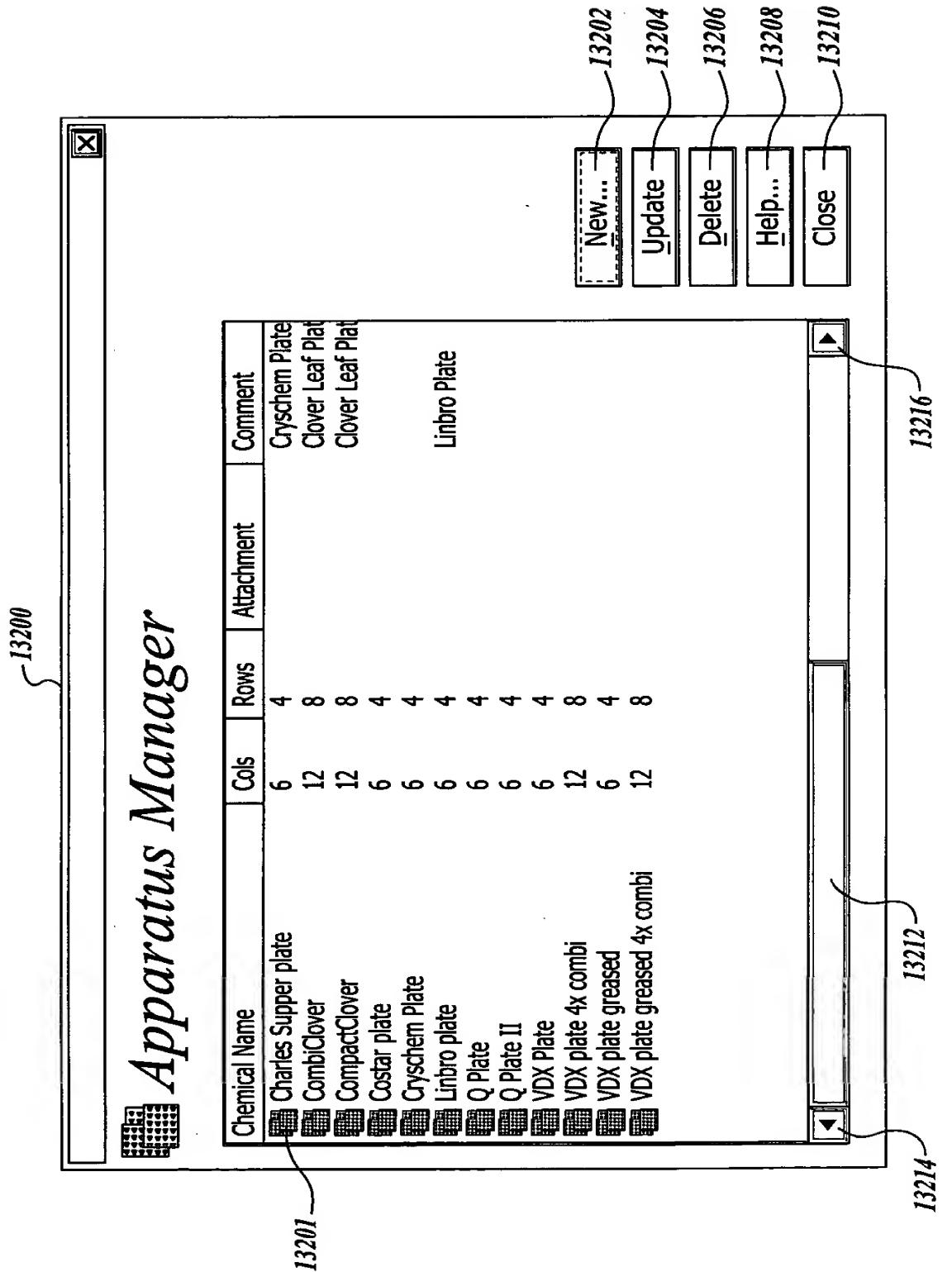


Fig. 132

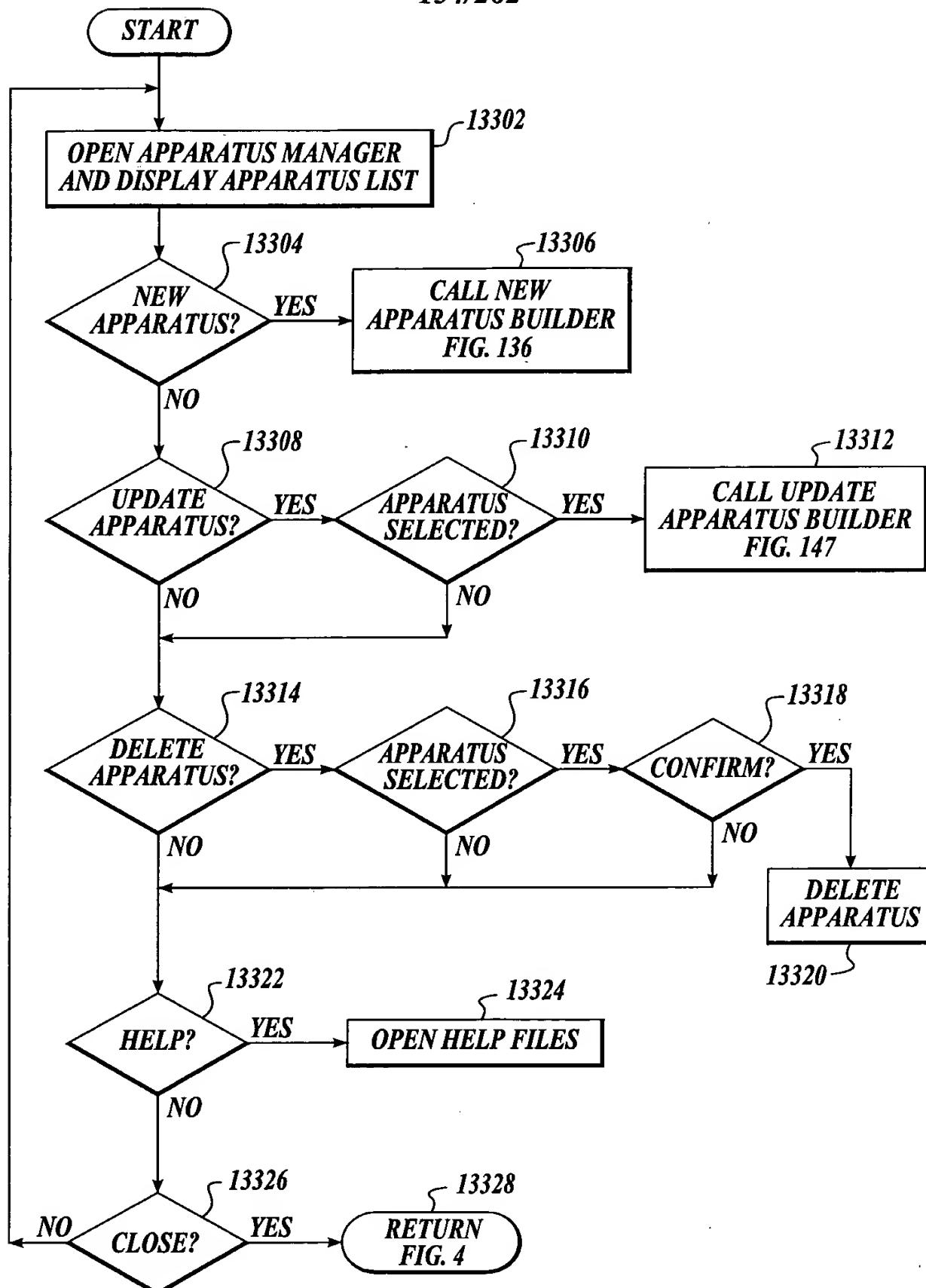


Fig. 133

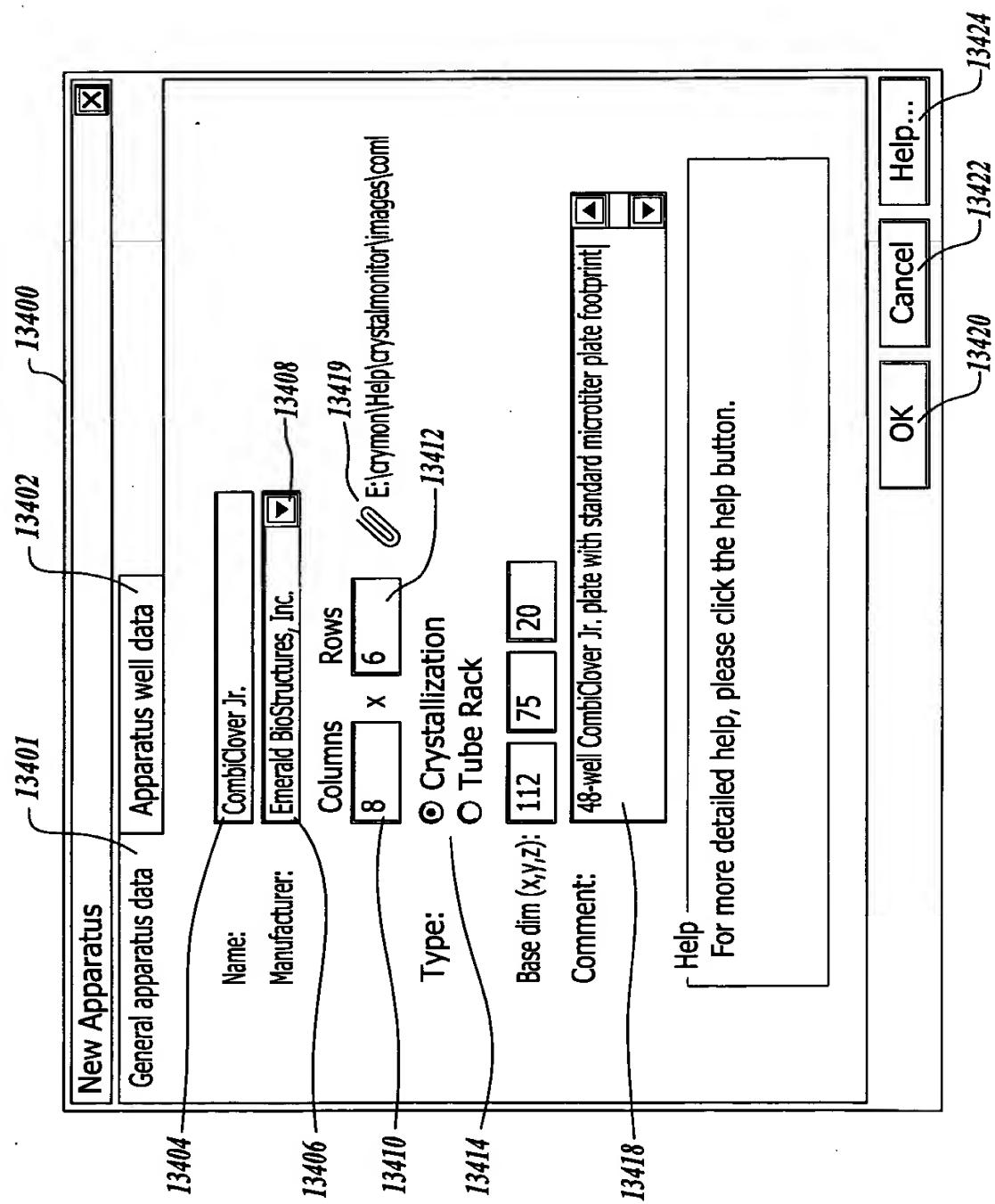


Fig. 134

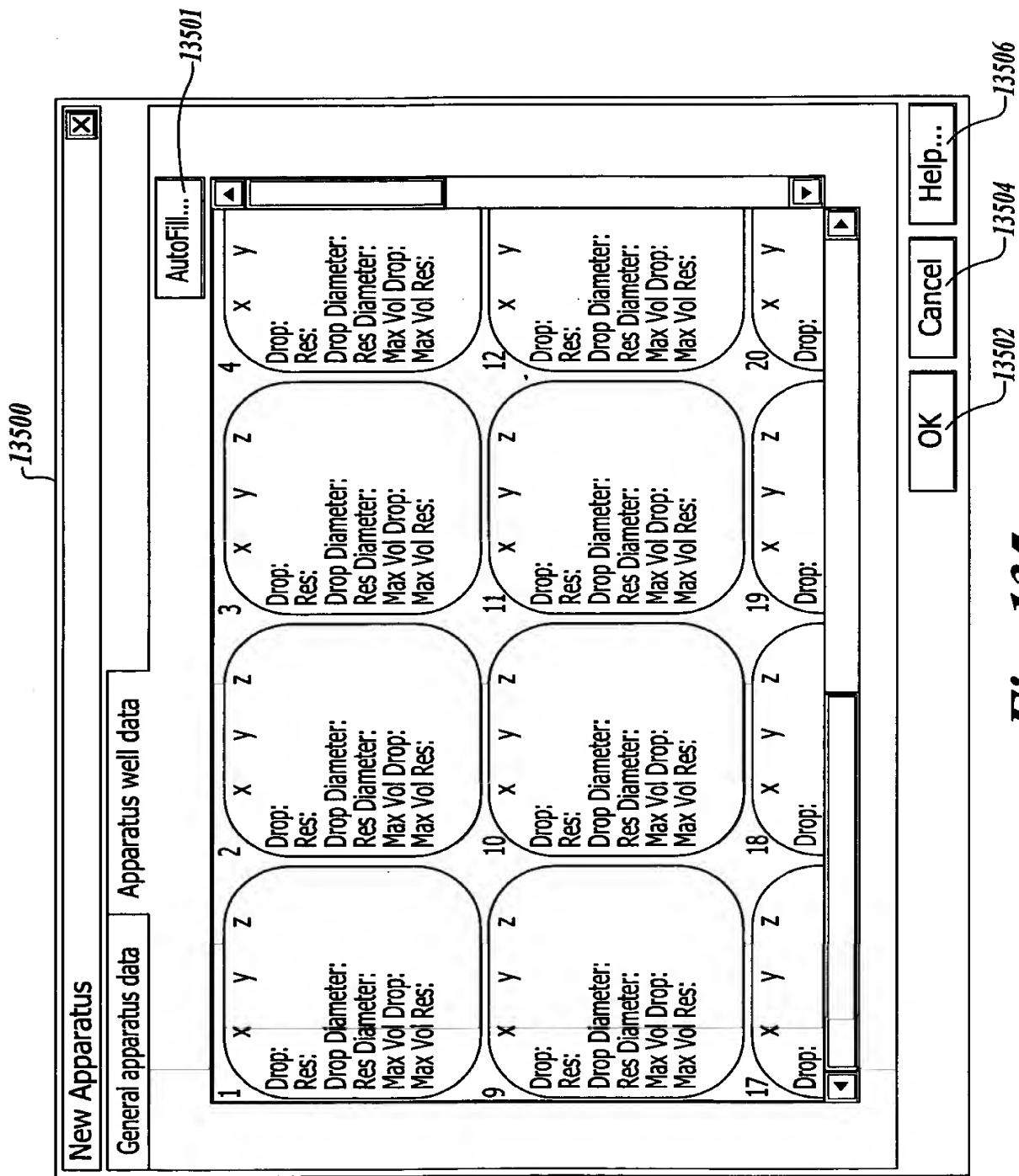


Fig. 135

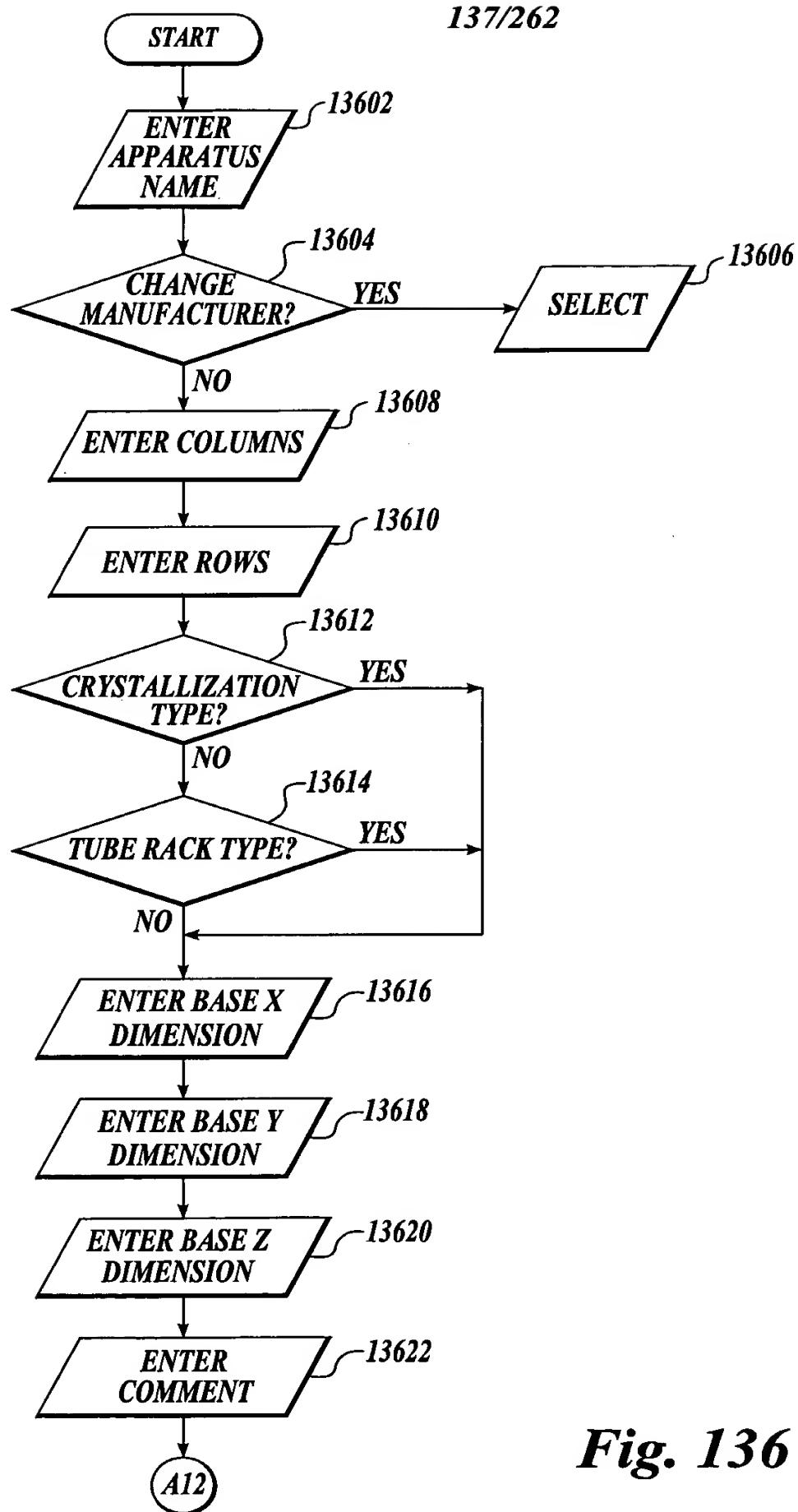


Fig. 136

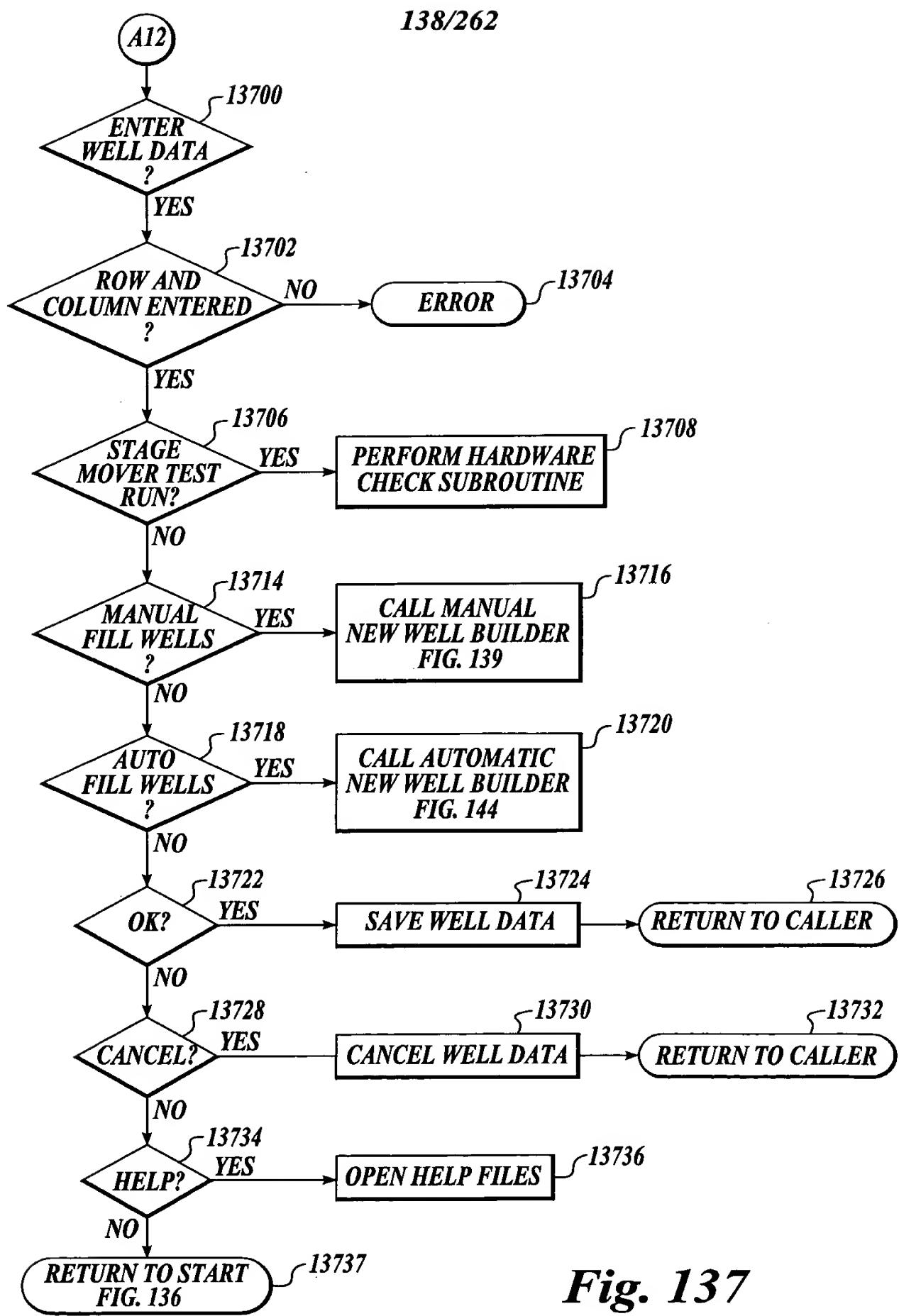


Fig. 137

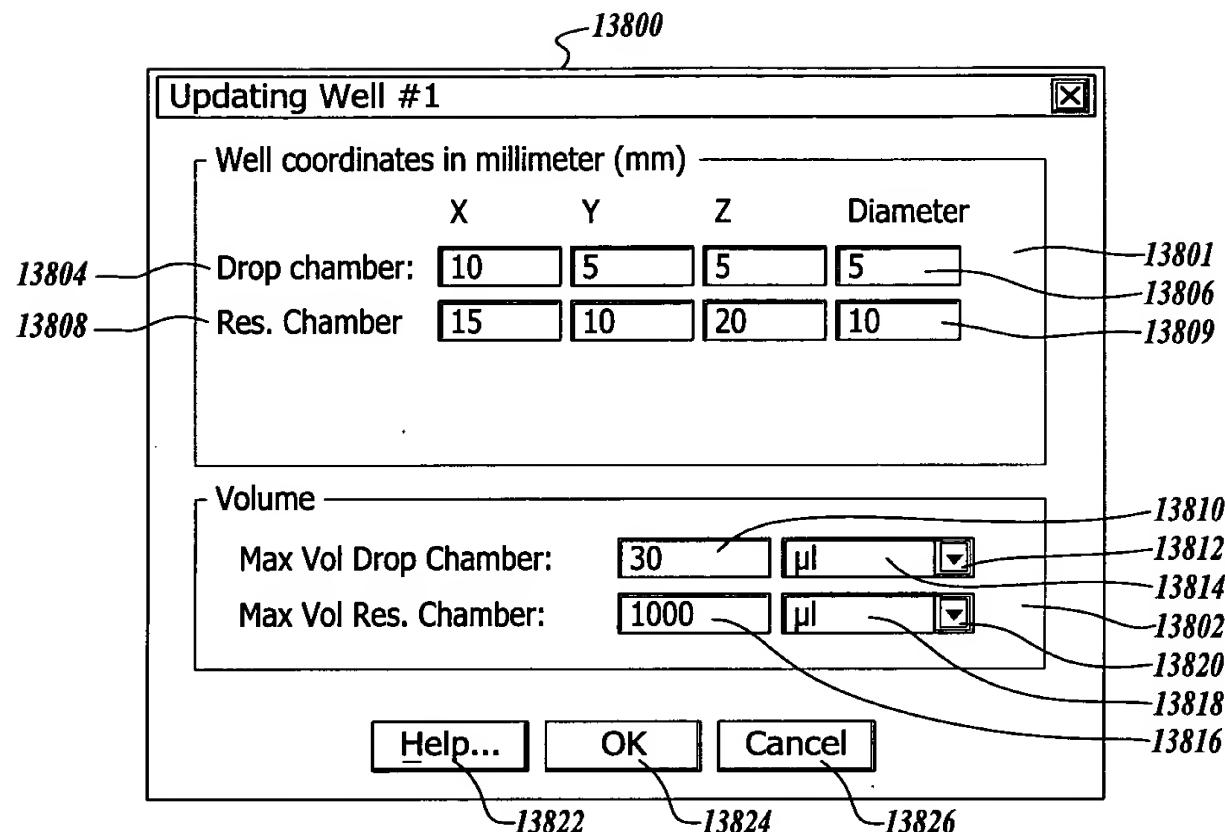


Fig. 138

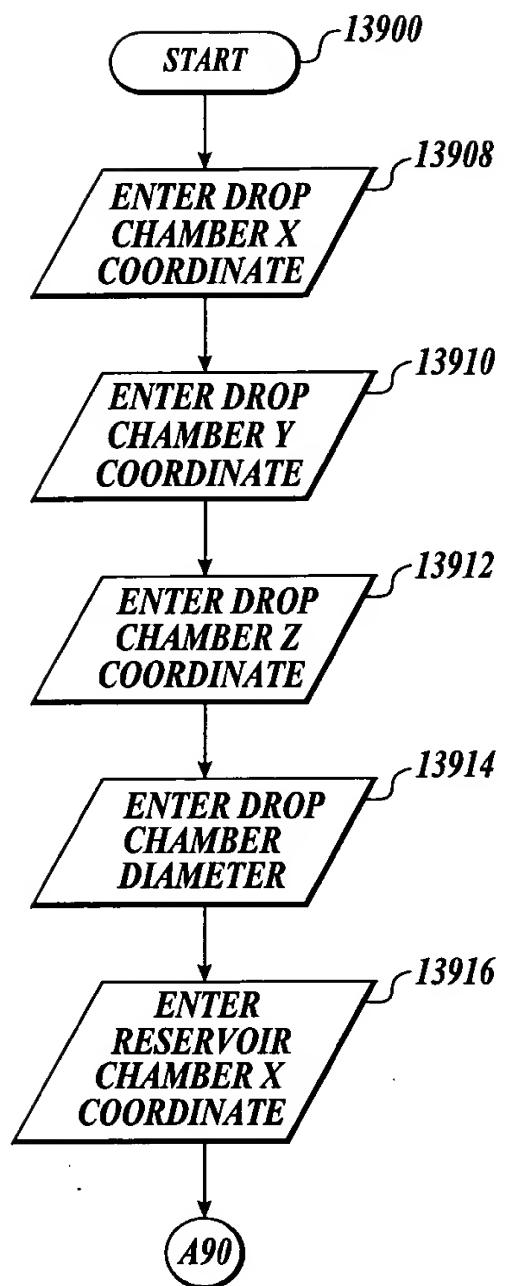


Fig. 139

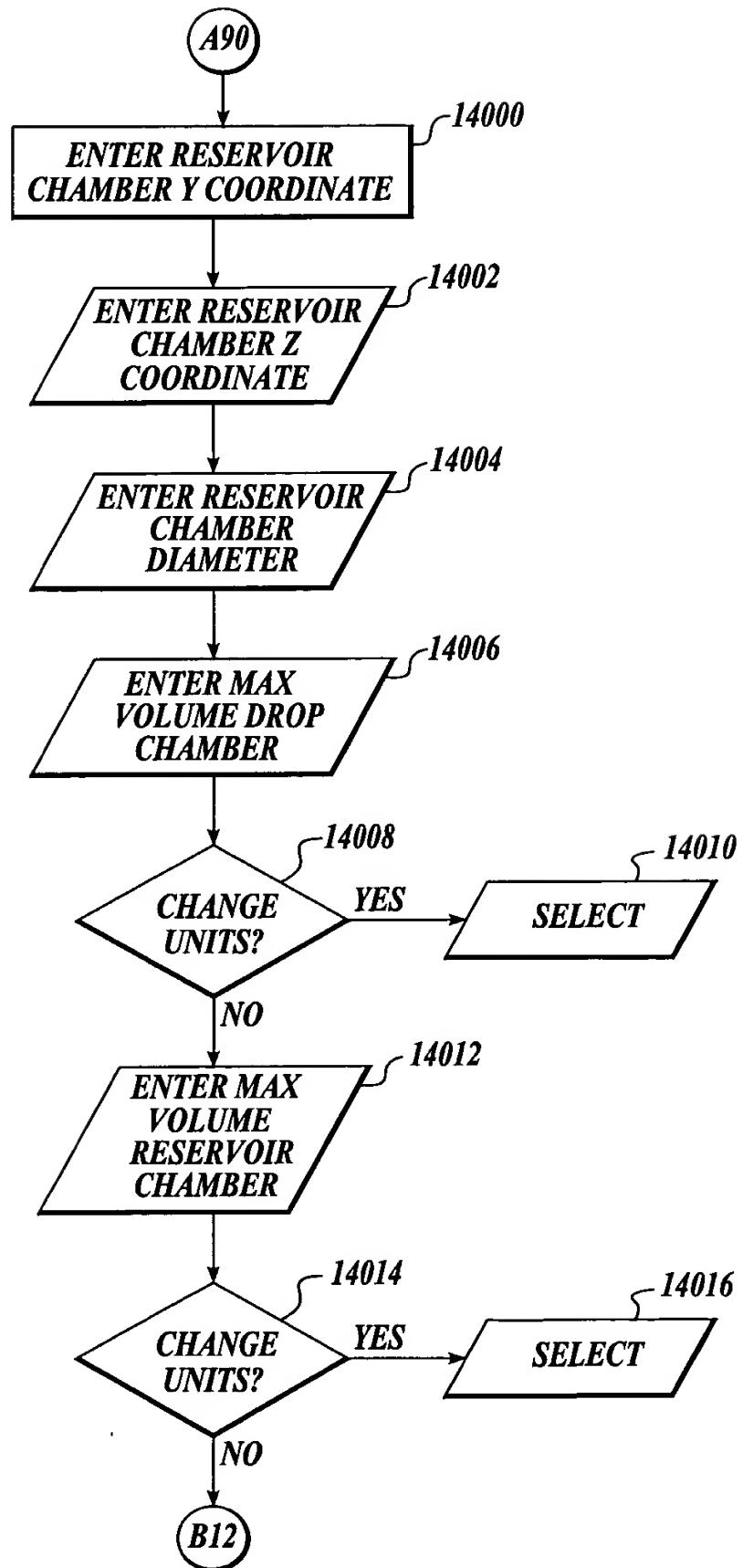


Fig. 140

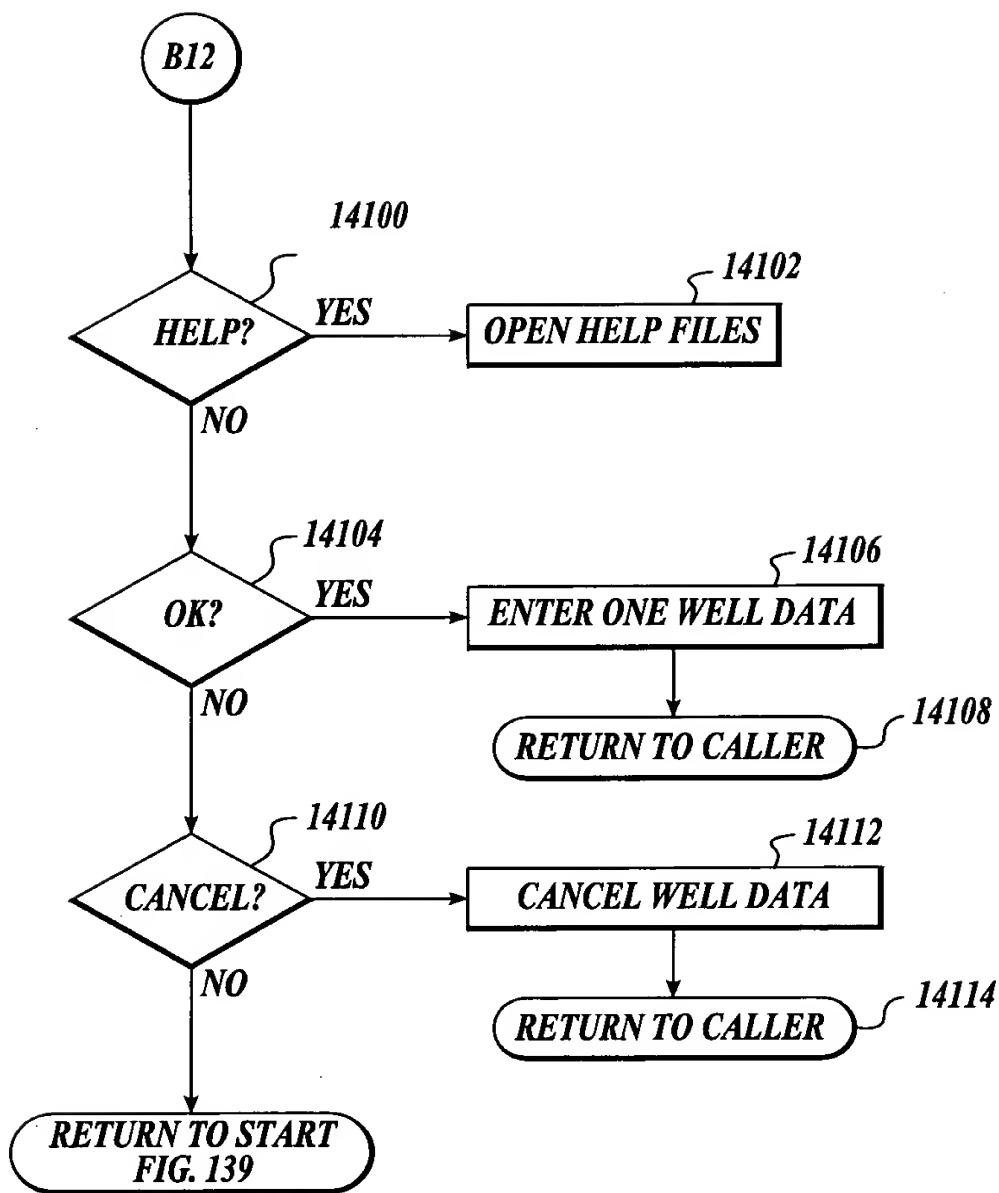


Fig. 141

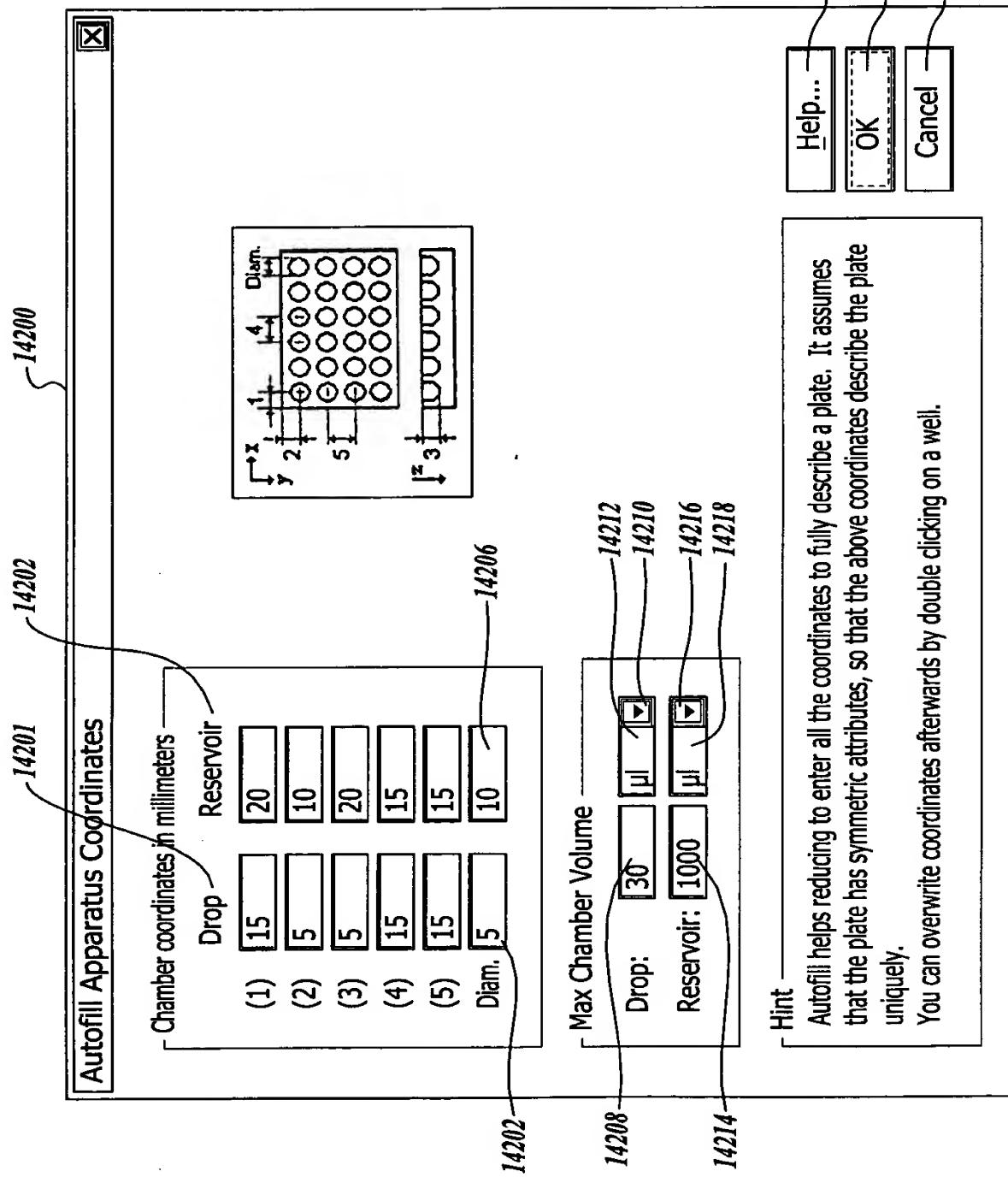


Fig. 142

New Apparatus

General apparatus data			Apparatus well data												
1	X	Y	Z	2	X	Y	Z	3	X	Y	Z	4	X	Y	Z
Drop:	15	5	5	Drop:	25	5	5	Drop:	35	5	5	Drop:	45	5	5
Res:	20	10	20	Res:	30	10	20	Res:	40	10	20	Res:	50	10	10
Drop Diameter:	5			Drop Diameter:	5			Drop Diameter:	5			Drop Diameter:	5		
Res Diameter:	10			Res Diameter:	10			Res Diameter:	10			Res Diameter:	10		
Max Vol Drop:	30,000	μl		Max Vol Drop:	30,000	μl		Max Vol Drop:	30,000	μl		Max Vol Drop:	30,000	μl	
Max Vol Res:				Max Vol Res:				Max Vol Res:				Max Vol Res:			
9	X	Y	Z	10	X	Y	Z	11	X	Y	Z	12	X	Y	Z
Drop:	15	15	5	Drop:	25	15	5	Drop:	35	15	5	Drop:	45	15	5
Res:	20	20	20	Res:	30	20	20	Res:	40	20	20	Res:	50	20	20
Drop Diameter:	5			Drop Diameter:	5			Drop Diameter:	5			Drop Diameter:	5		
Res Diameter:	10			Res Diameter:	10			Res Diameter:	10			Res Diameter:	10		
Max Vol Drop:	30,000	μl		Max Vol Drop:	30,000	μl		Max Vol Drop:	30,000	μl		Max Vol Drop:	30,000	μl	
Max Vol Res:				Max Vol Res:				Max Vol Res:				Max Vol Res:			
17	X	Y	Z	18	X	Y	Z	19	X	Y	Z	20	X	Y	Z
Drop:	15	25	5	Drop:	25	25	5	Drop:	35	25	5	Drop:	45	25	5

Buttons:

- OK
- Cancel
- Help...

Annotations:

- 14300: Points to the 'OK' button.
- 14302: Points to the 'Cancel' button.
- 14304: Points to the 'Help...' button.
- 144/262: Points to the top center of the window.

Fig. 143

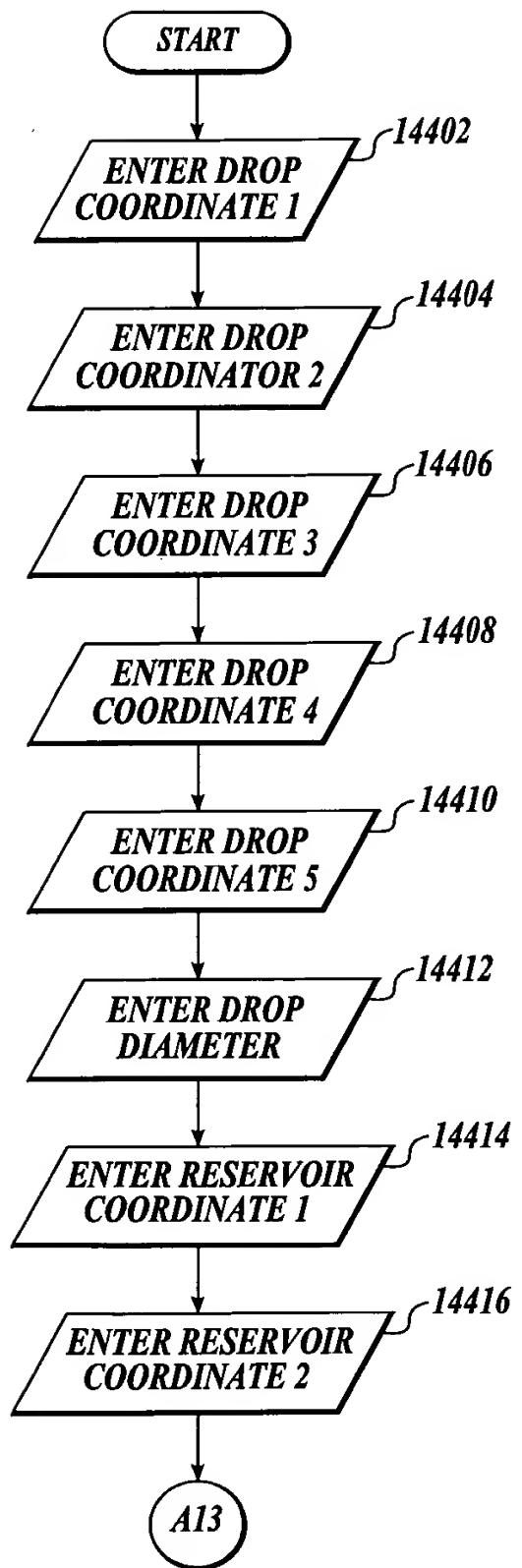


Fig. 144

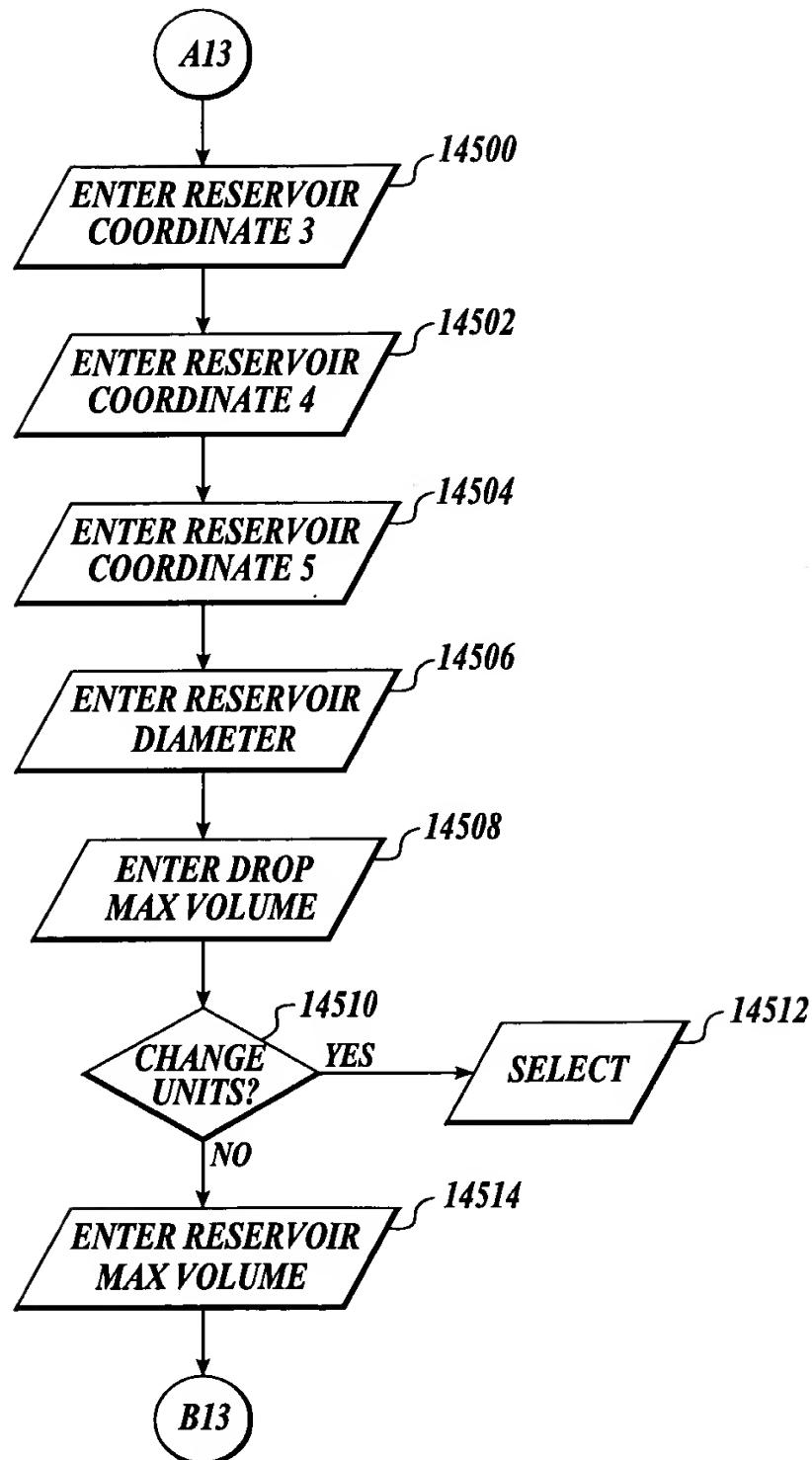


Fig. 145

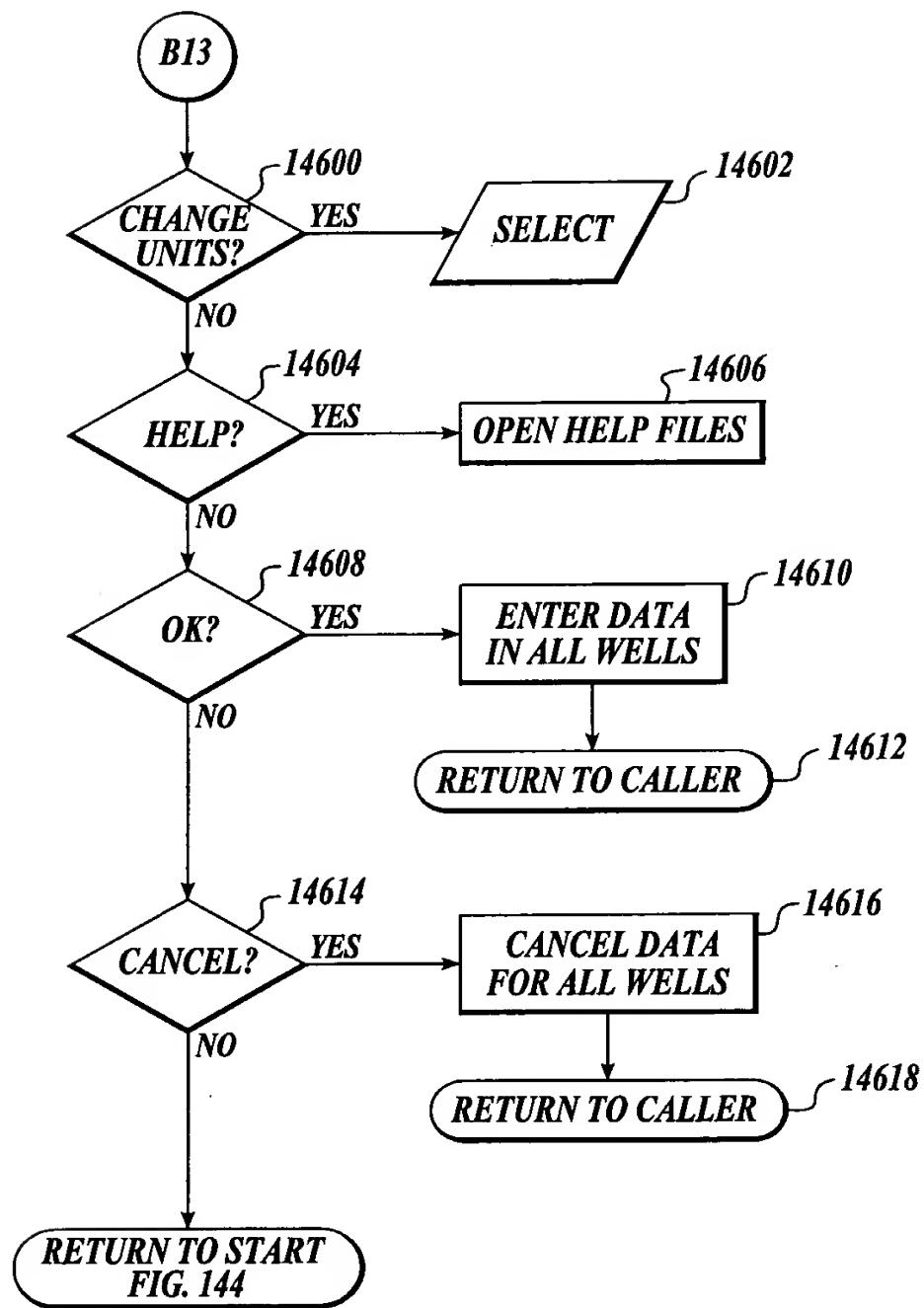


Fig. 146

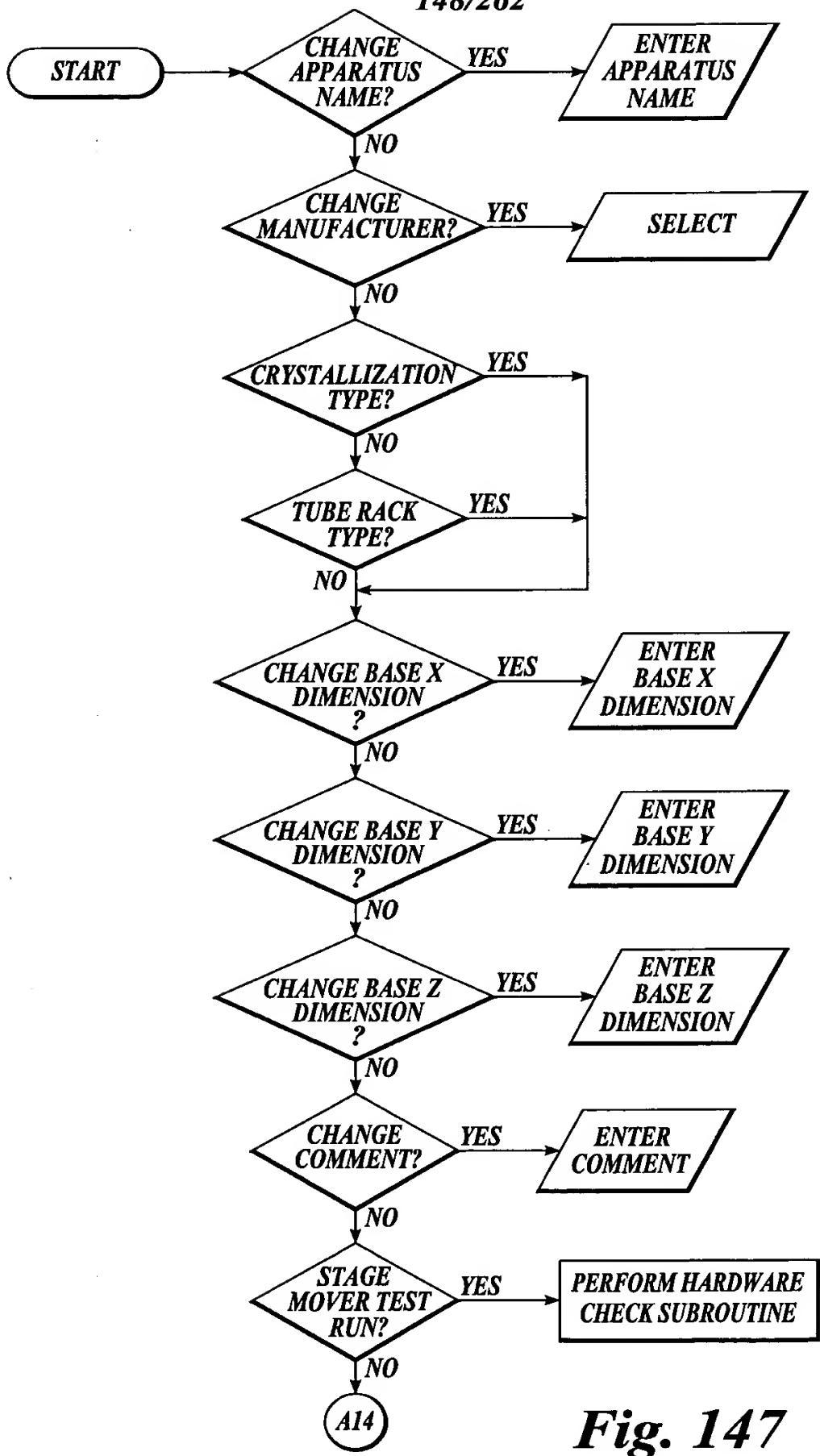


Fig. 147

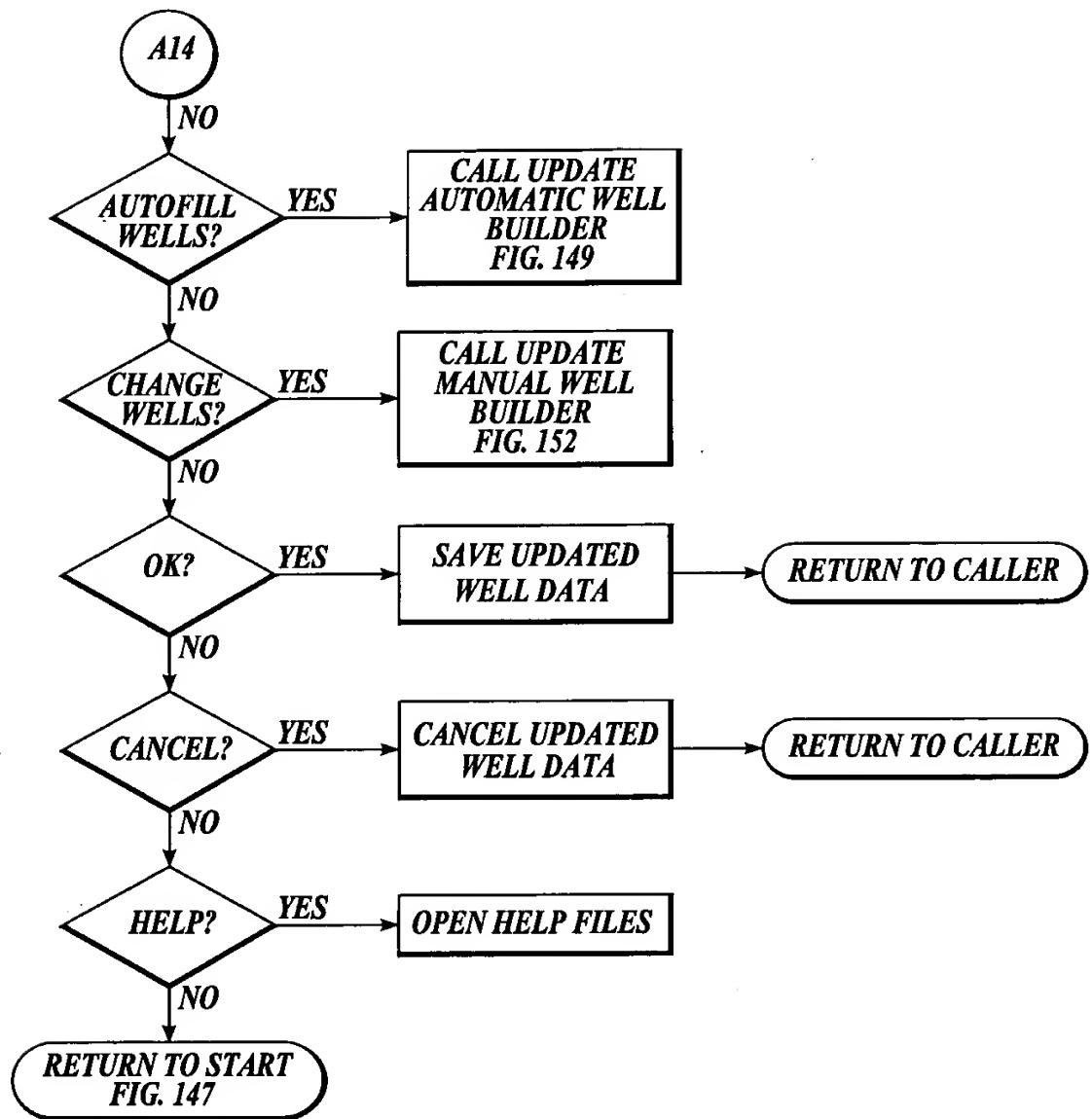


Fig. 148

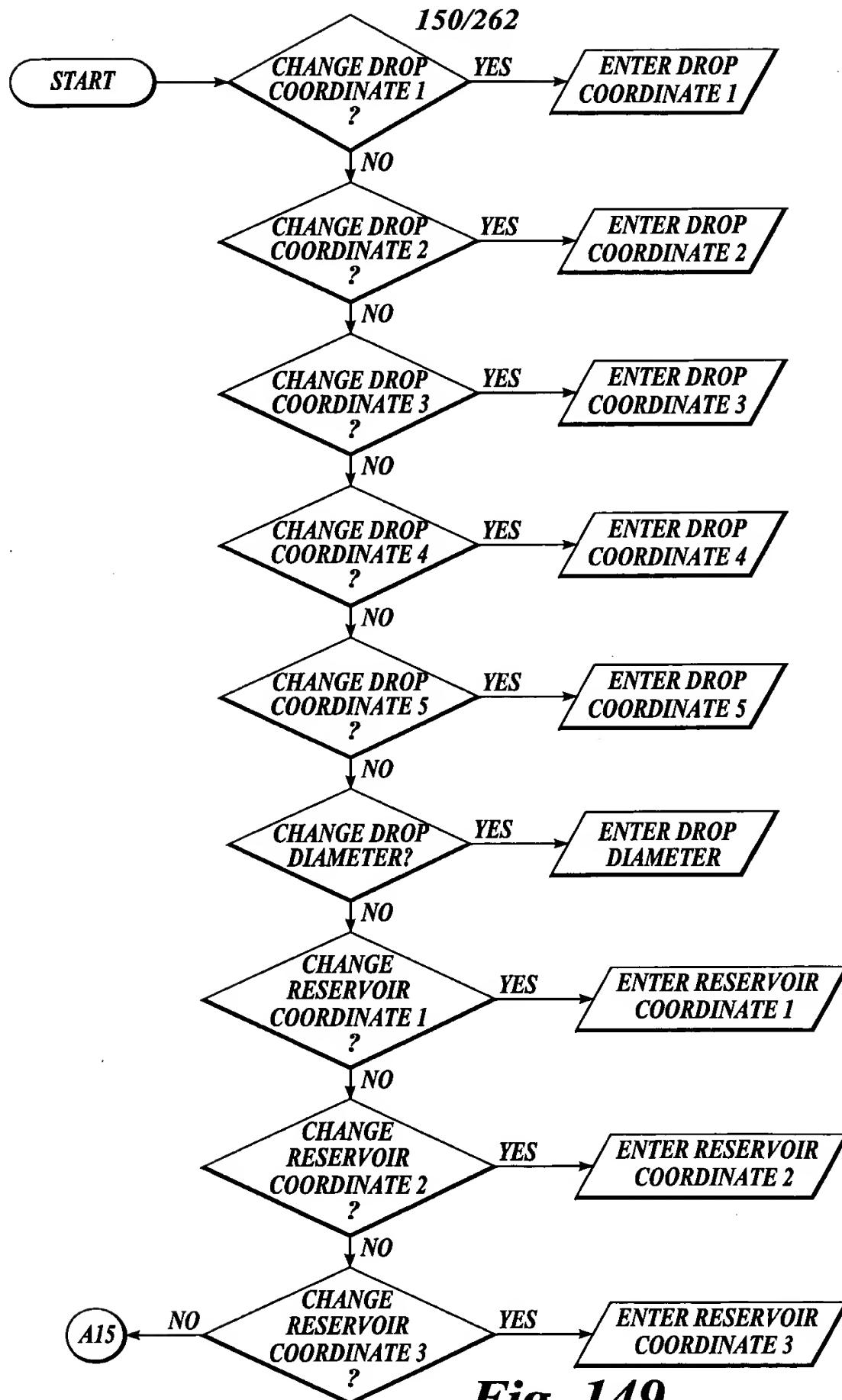


Fig. 149

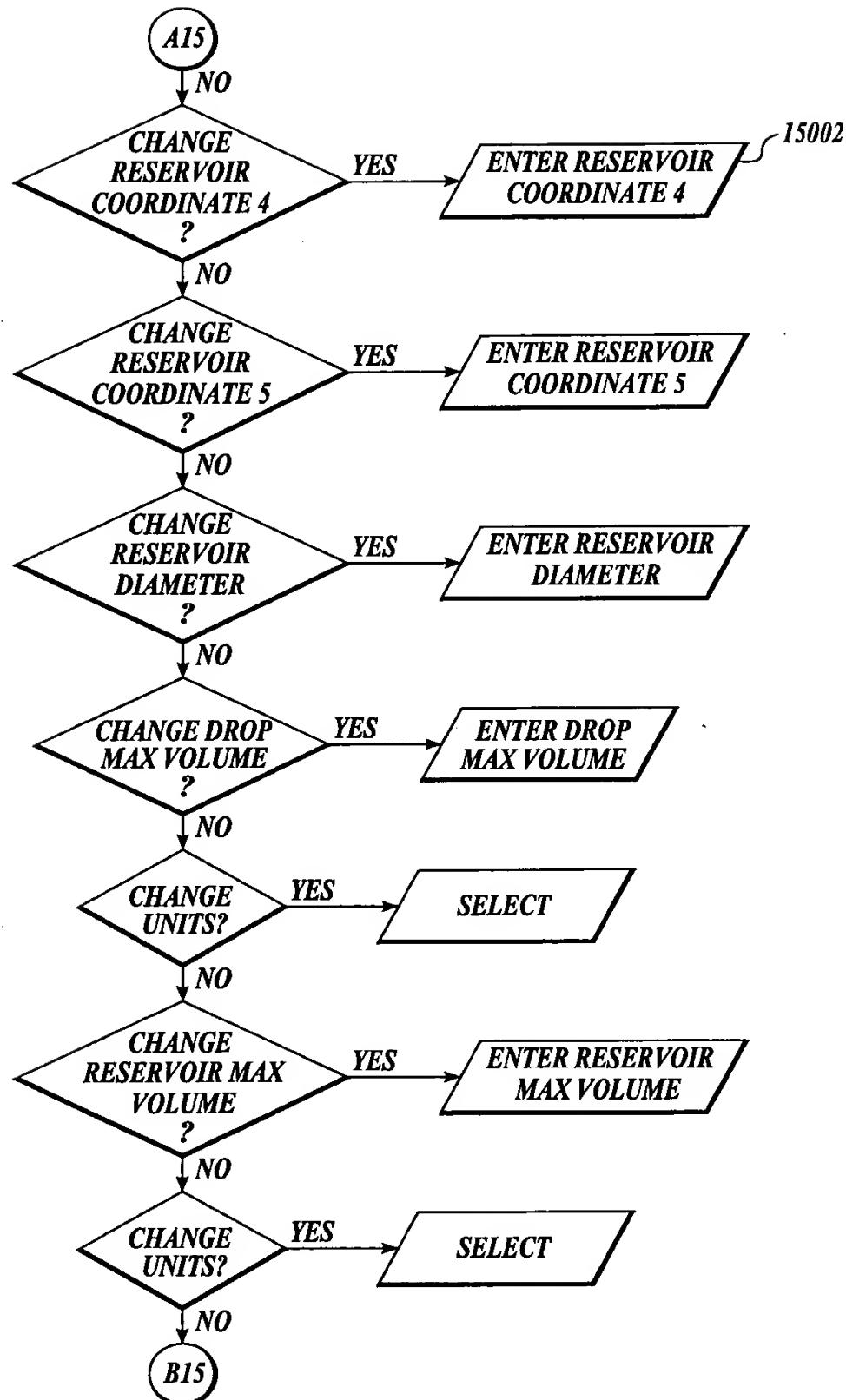


Fig. 150

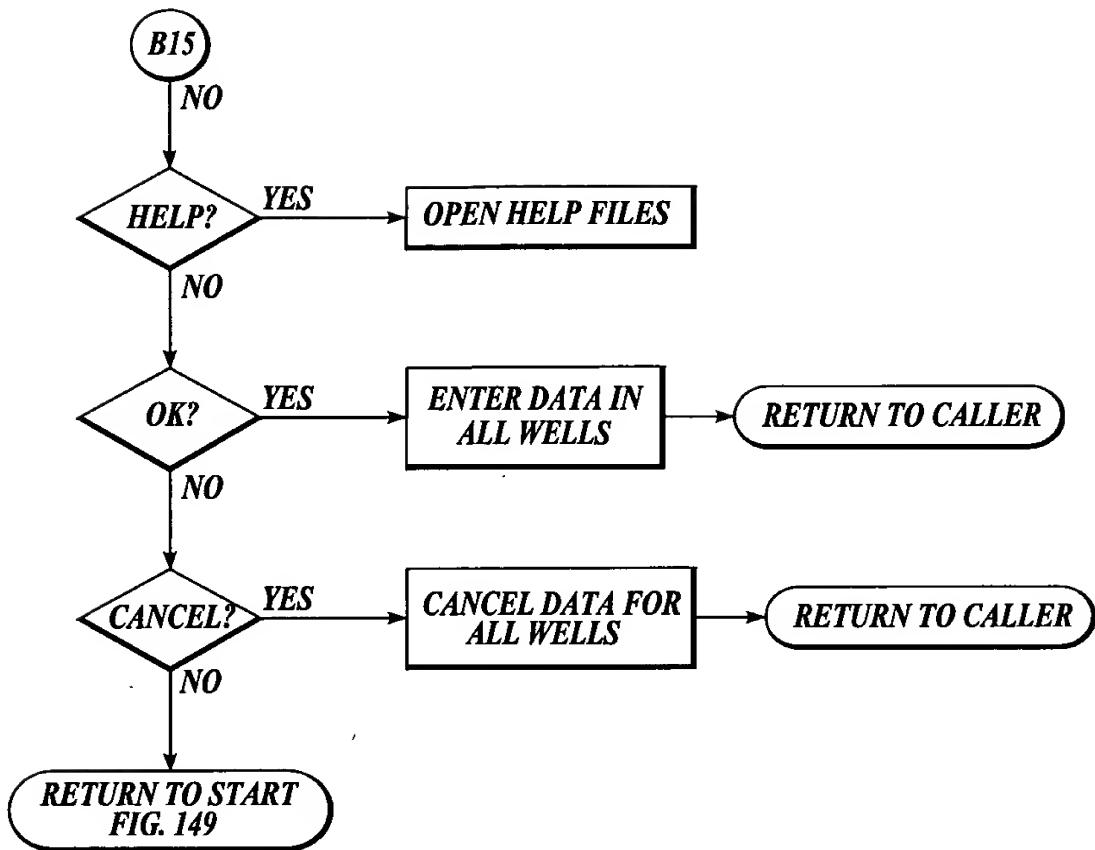


Fig. 151

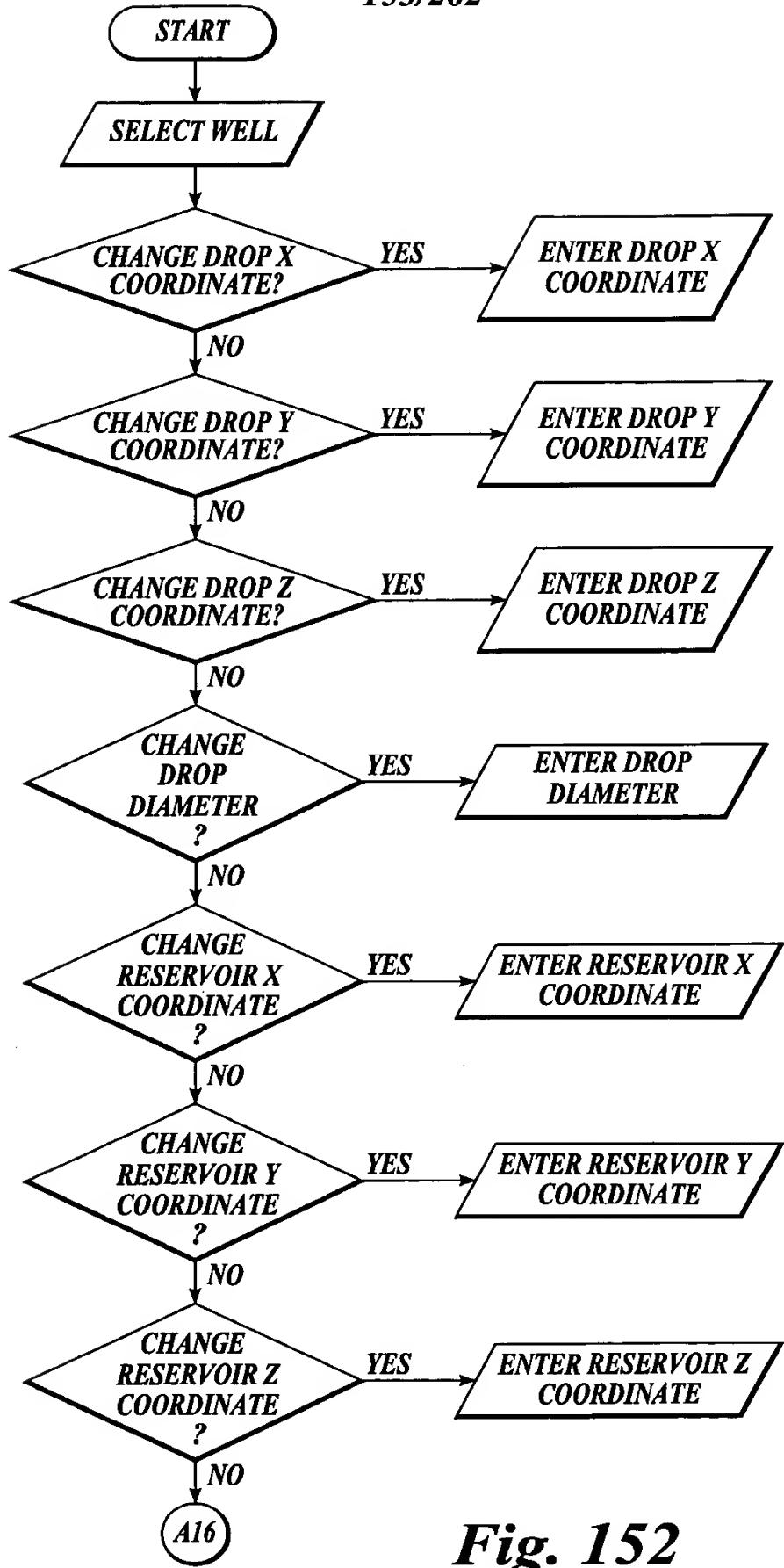


Fig. 152

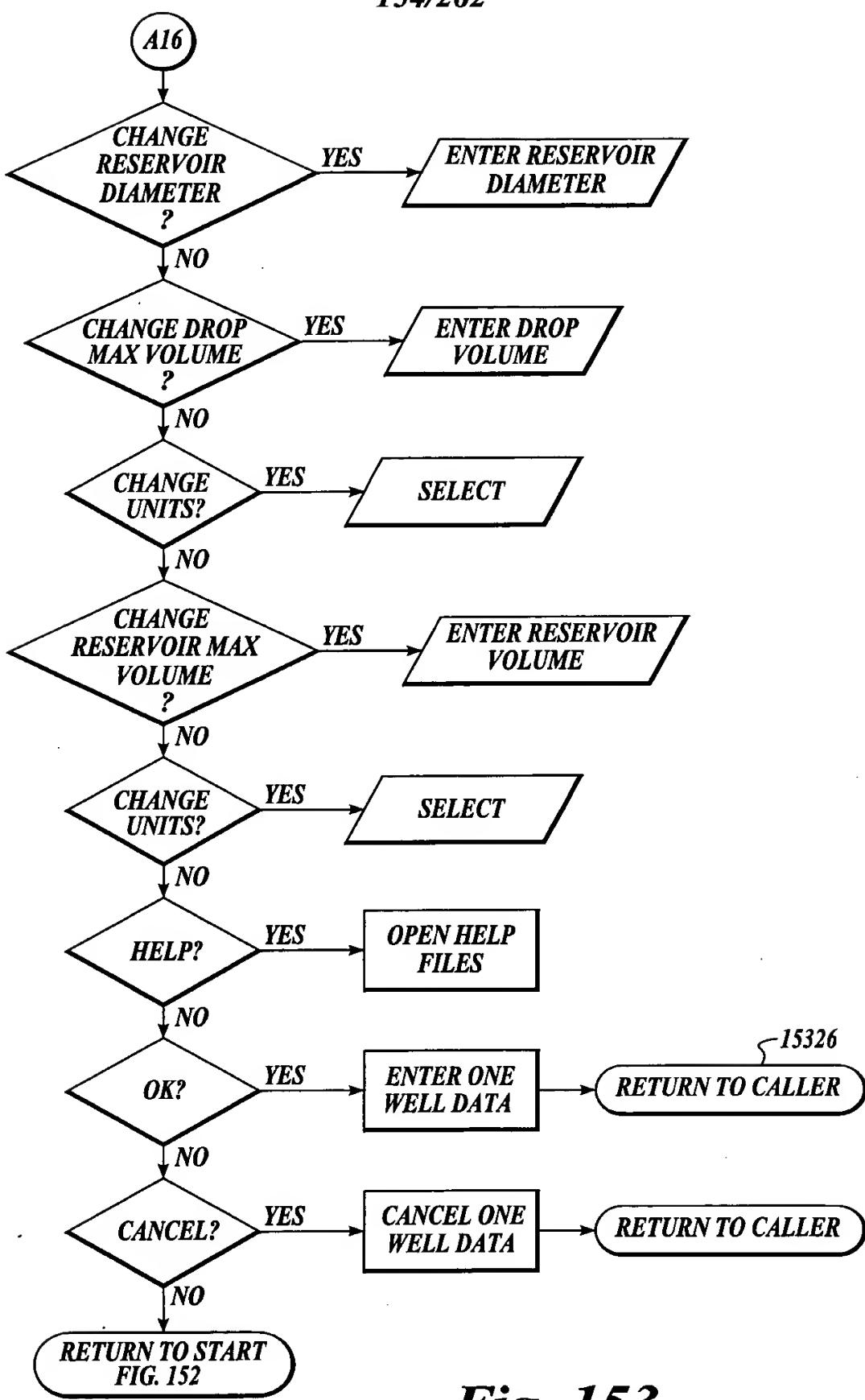


Fig. 153

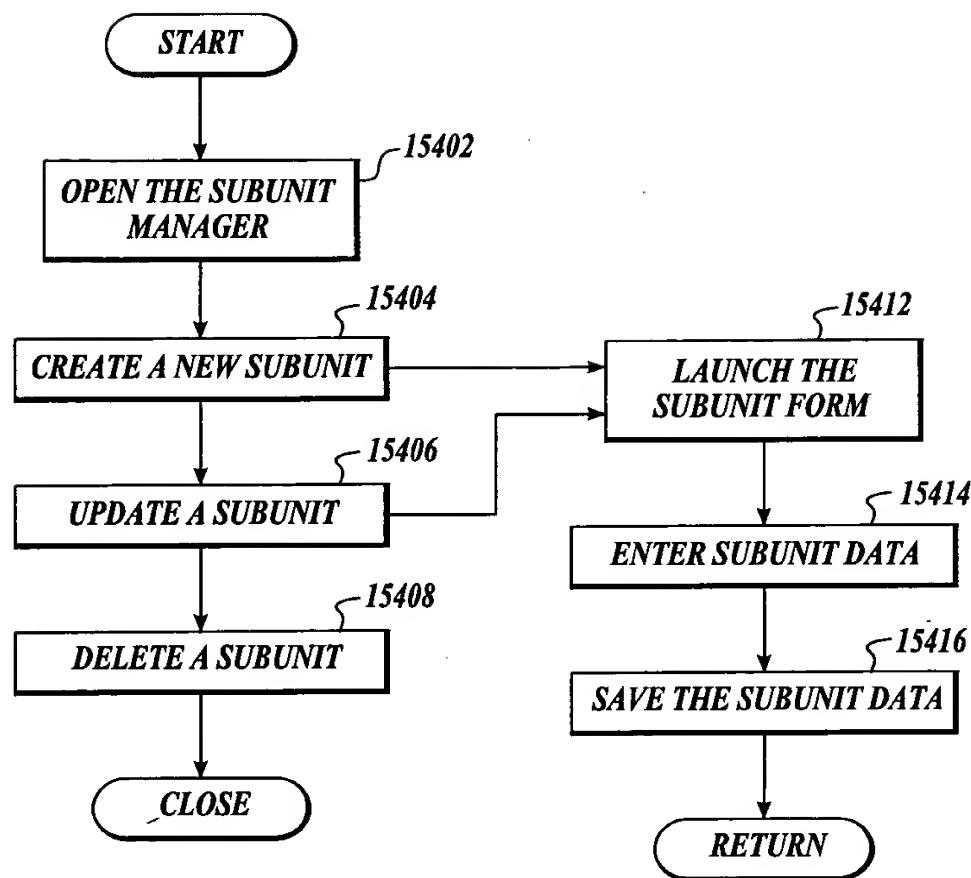


Fig. 154

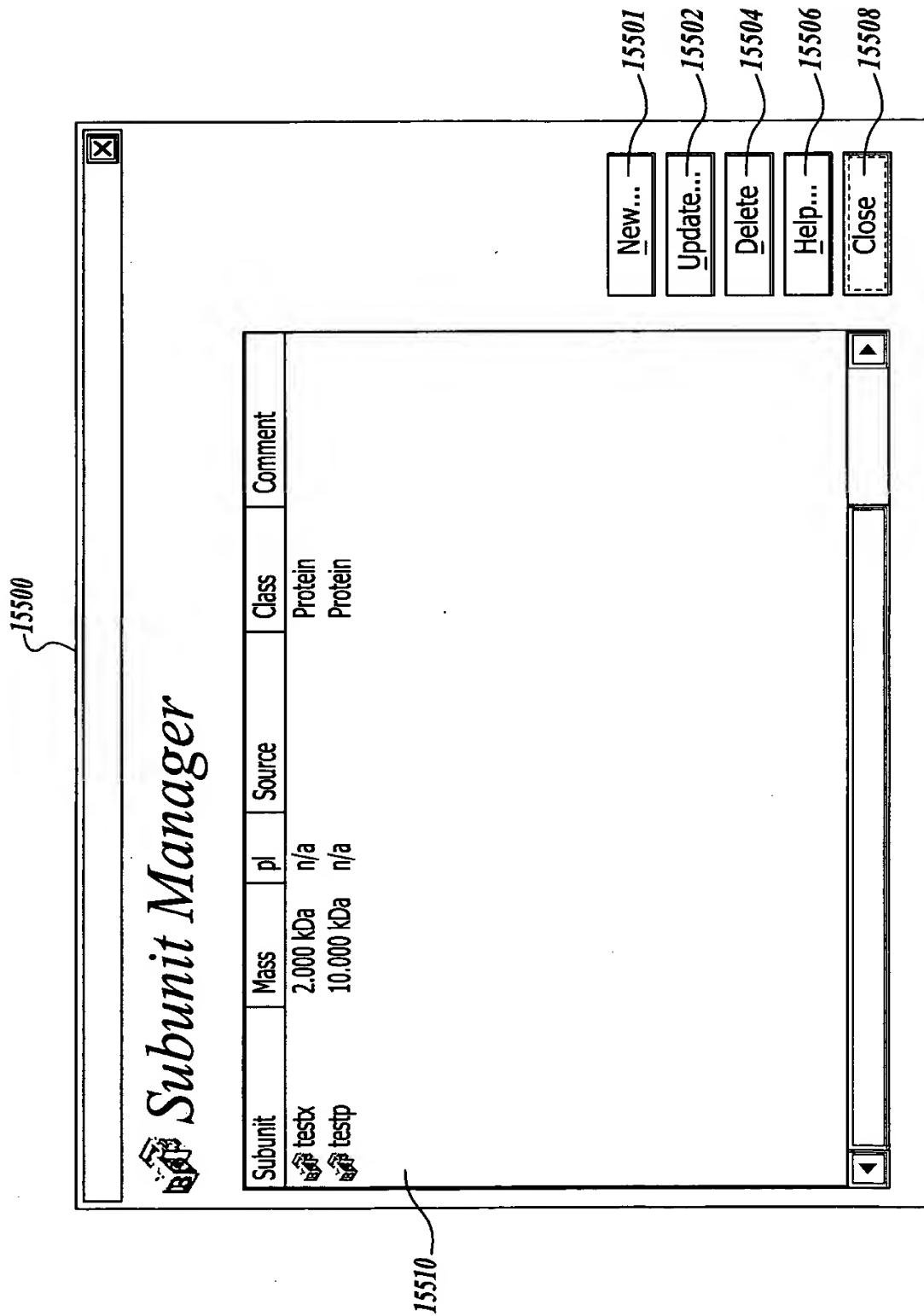


Fig. 155

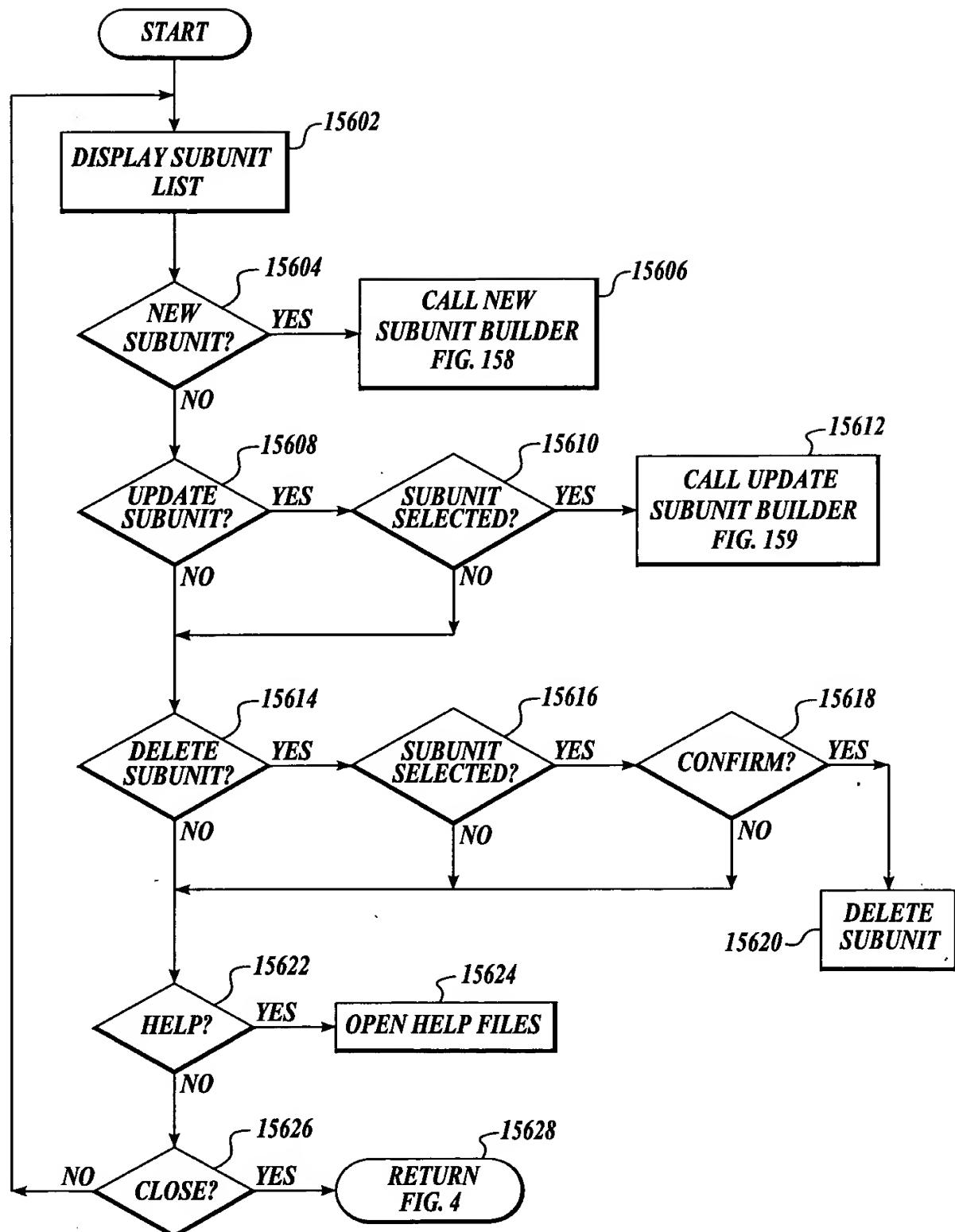


Fig. 156

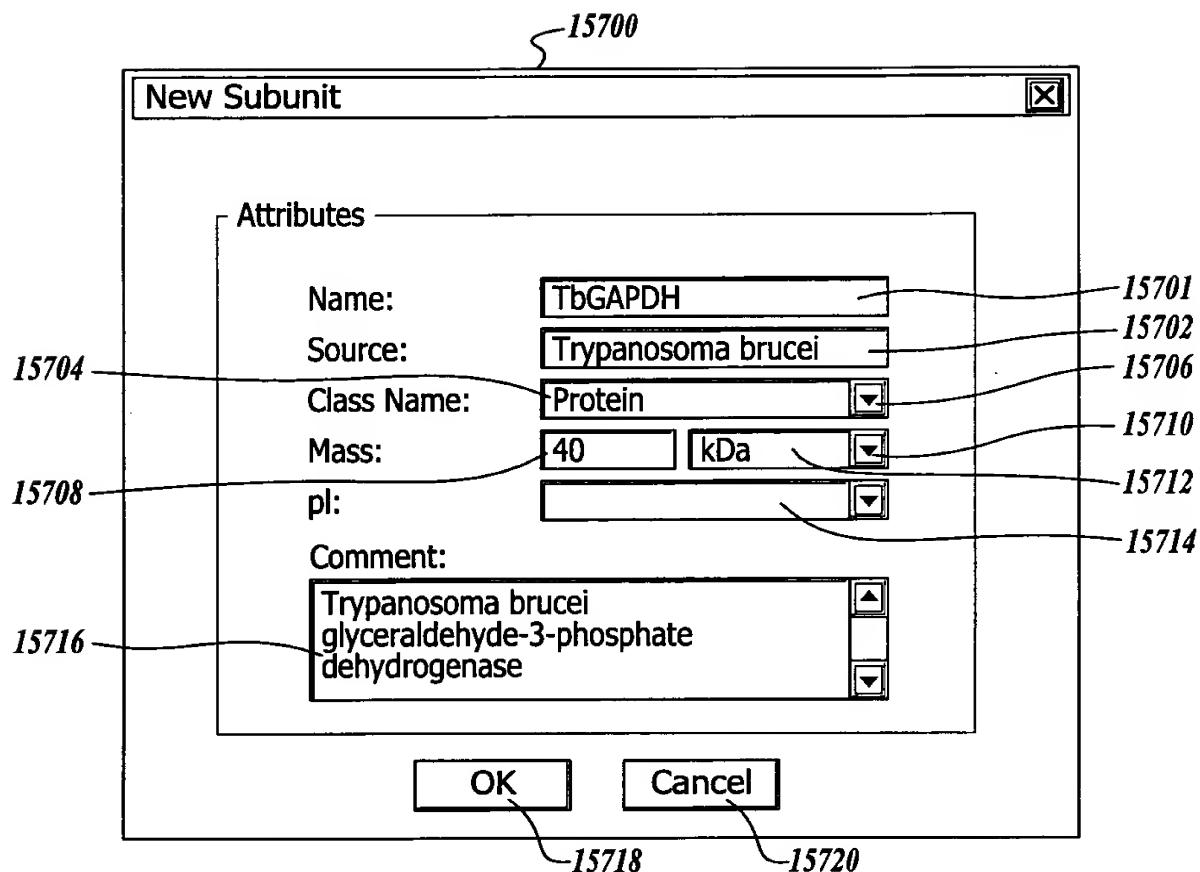


Fig. 157

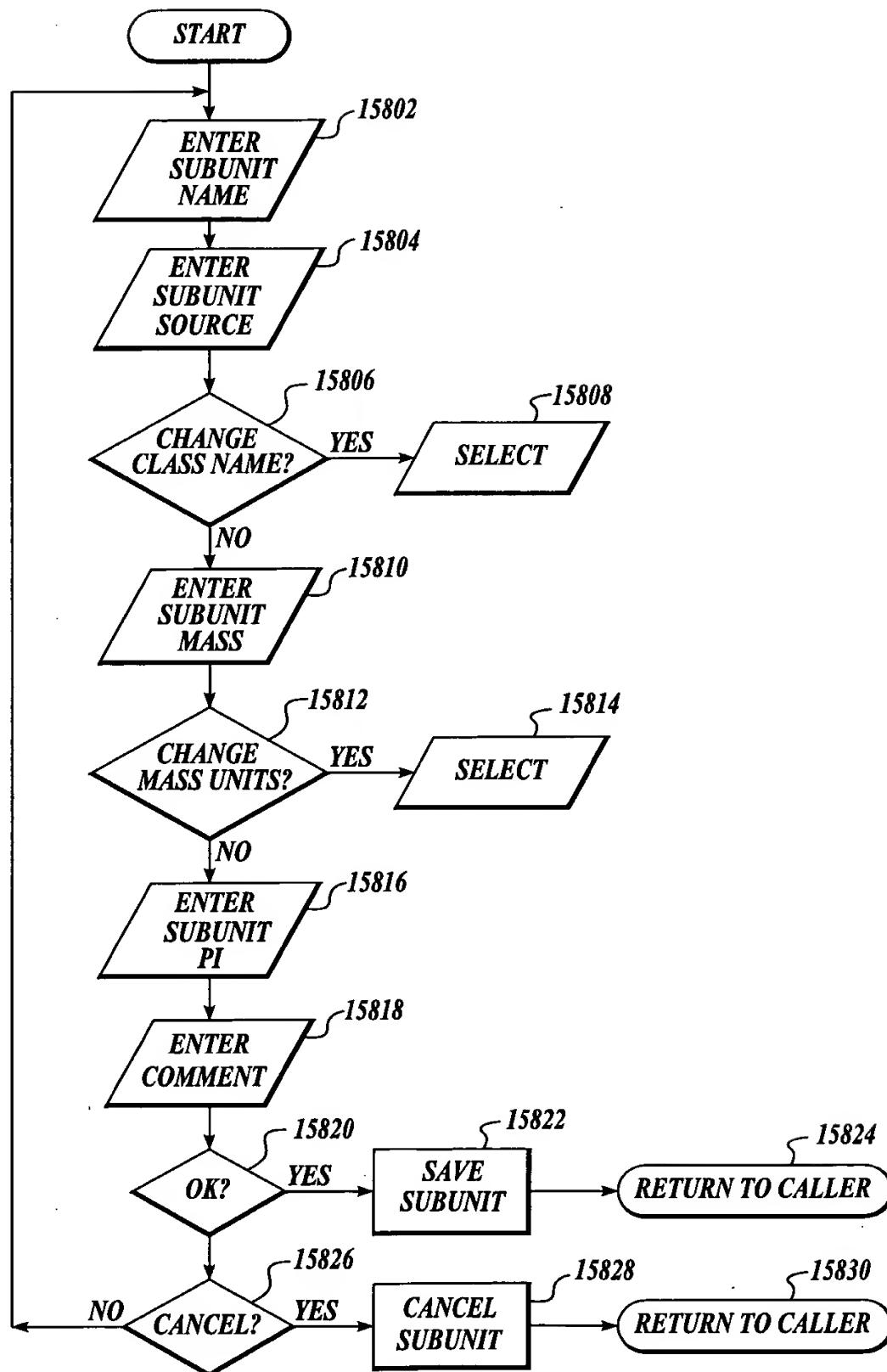
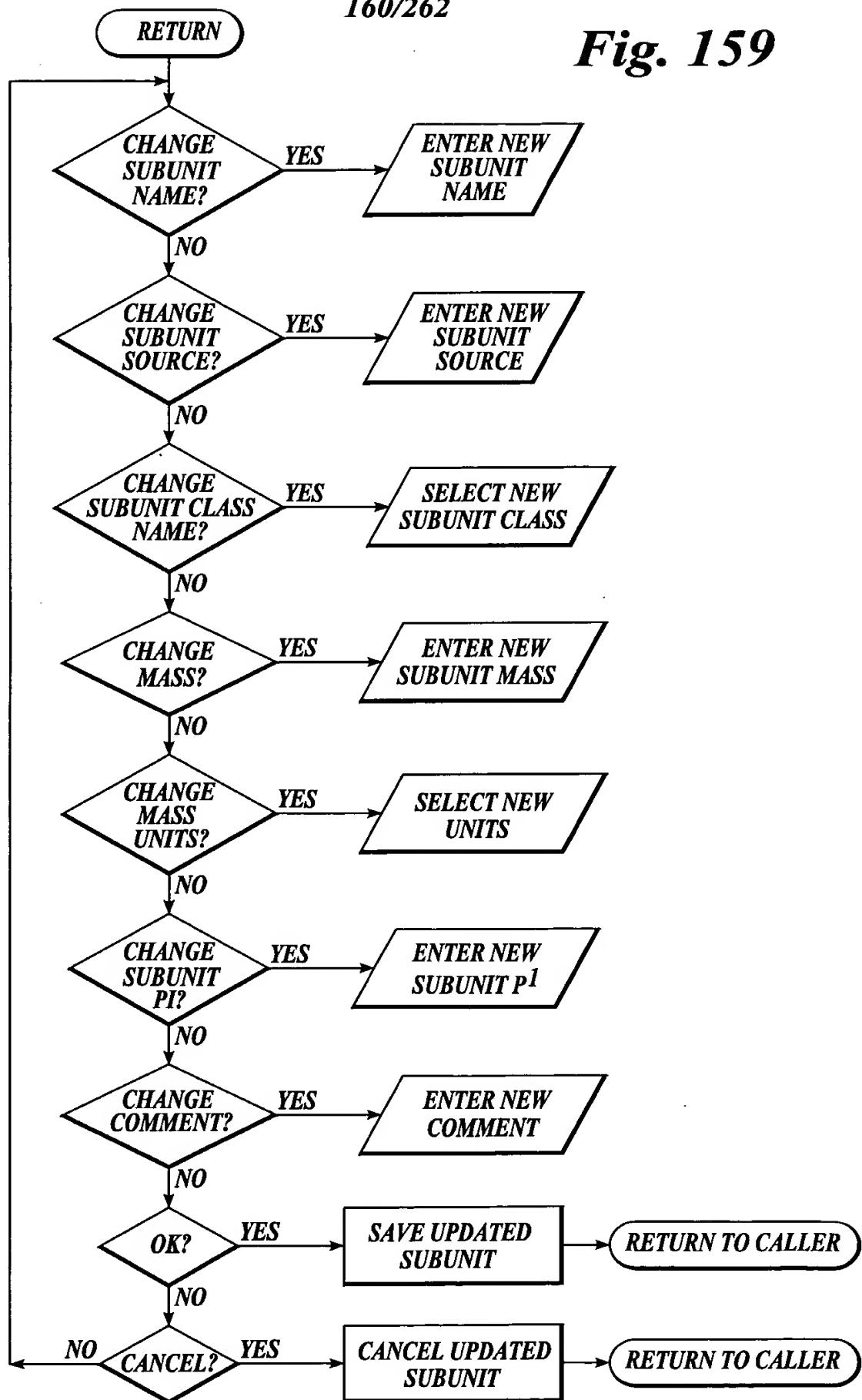


Fig. 158

Fig. 159



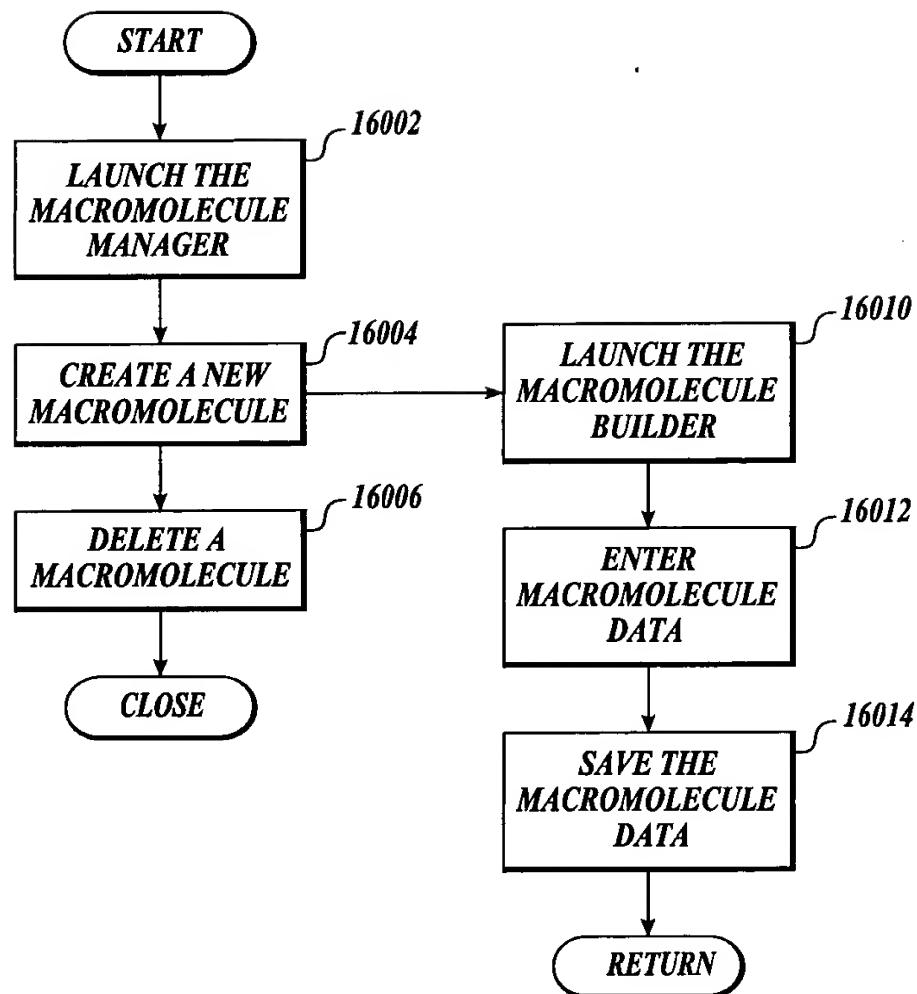


Fig. 160

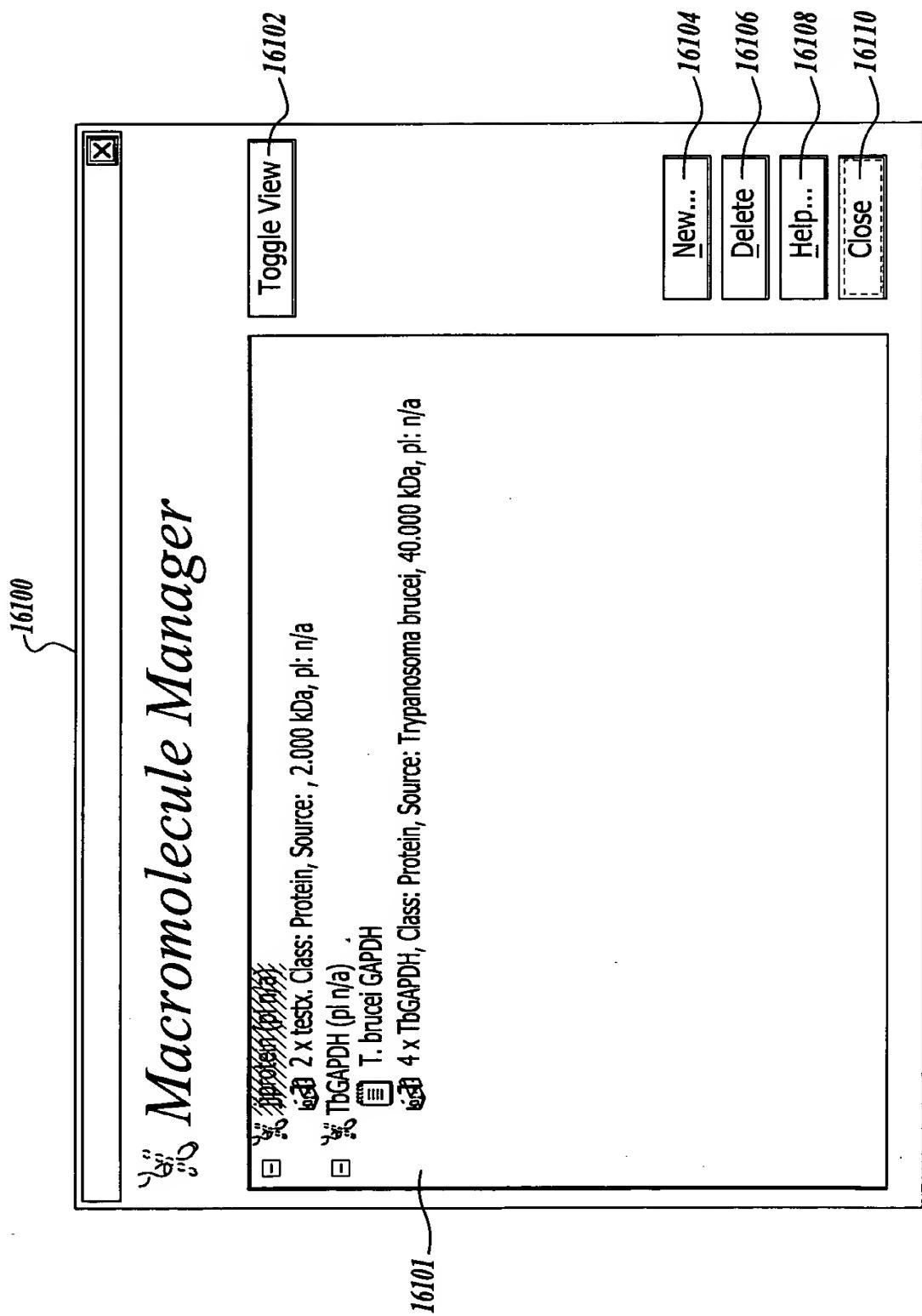


Fig. 161

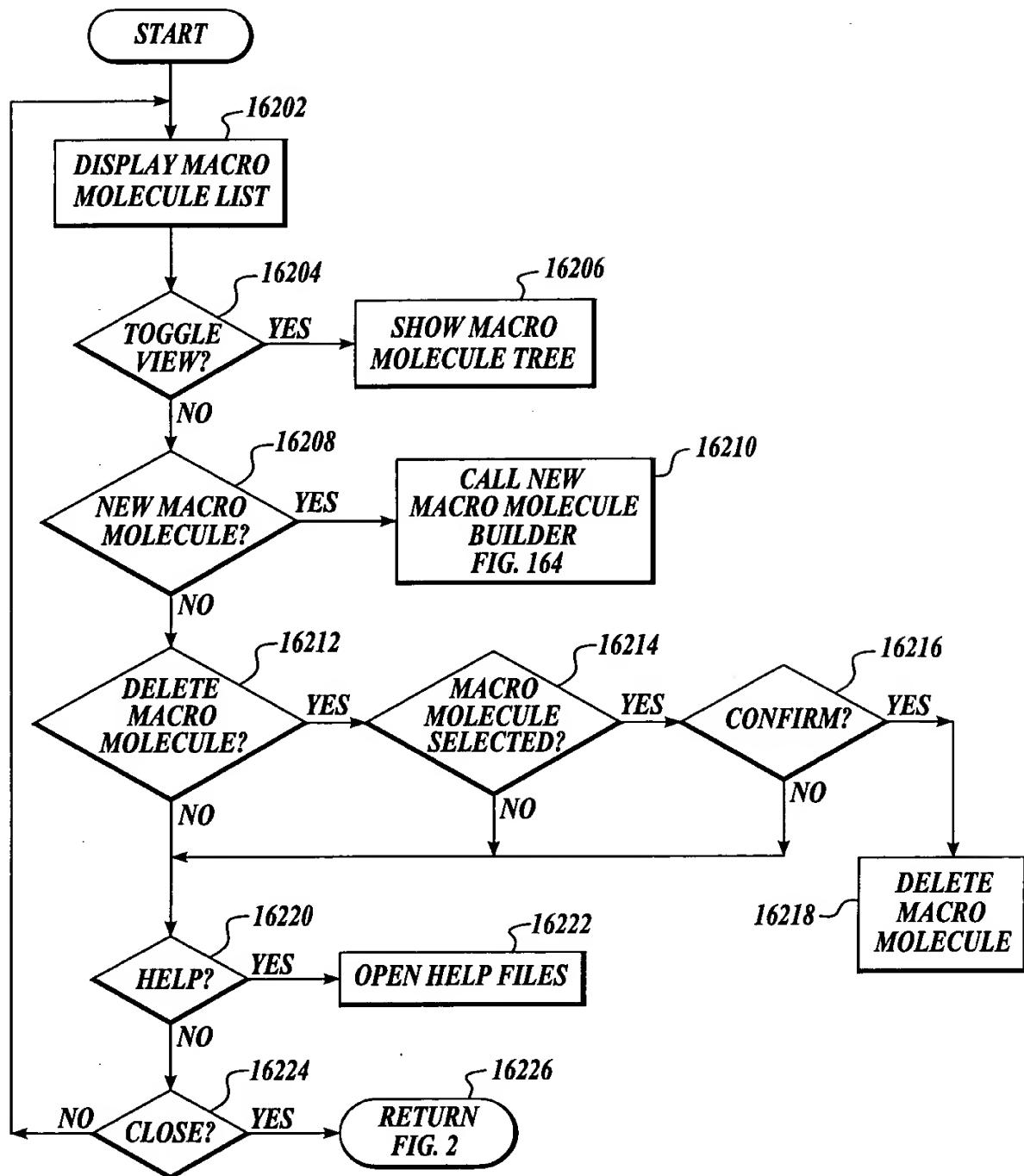


Fig. 162

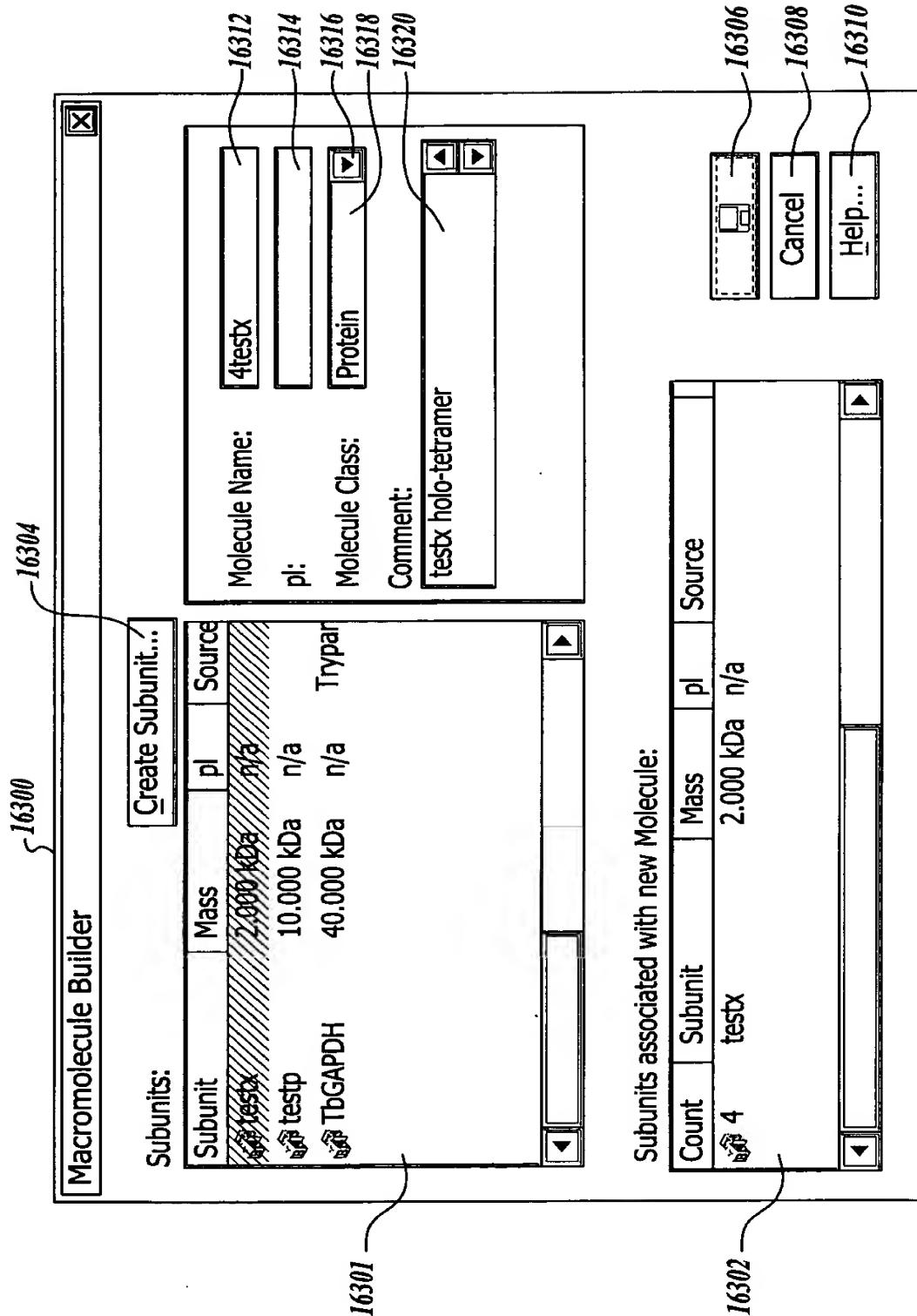


Fig. 163

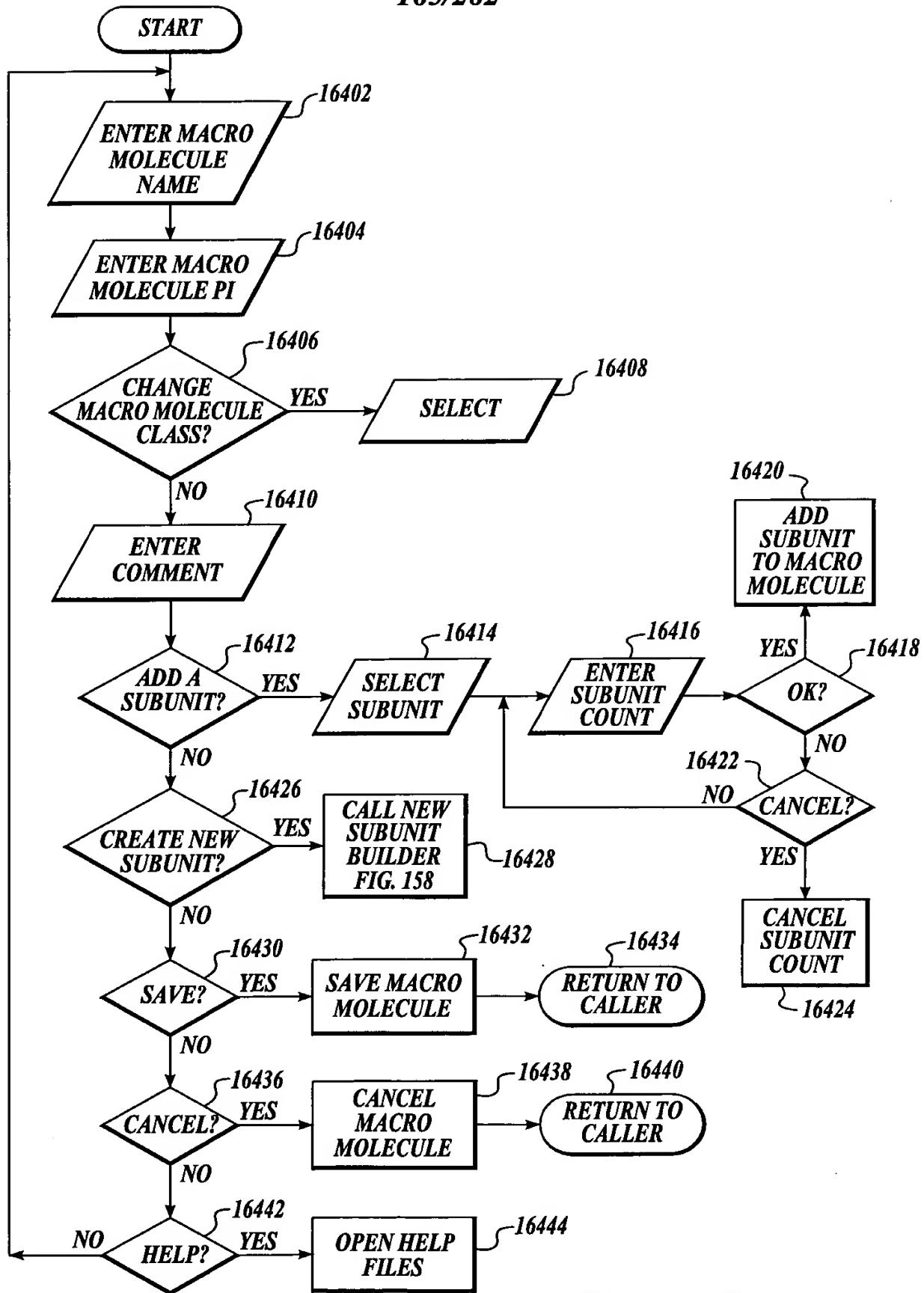


Fig. 164

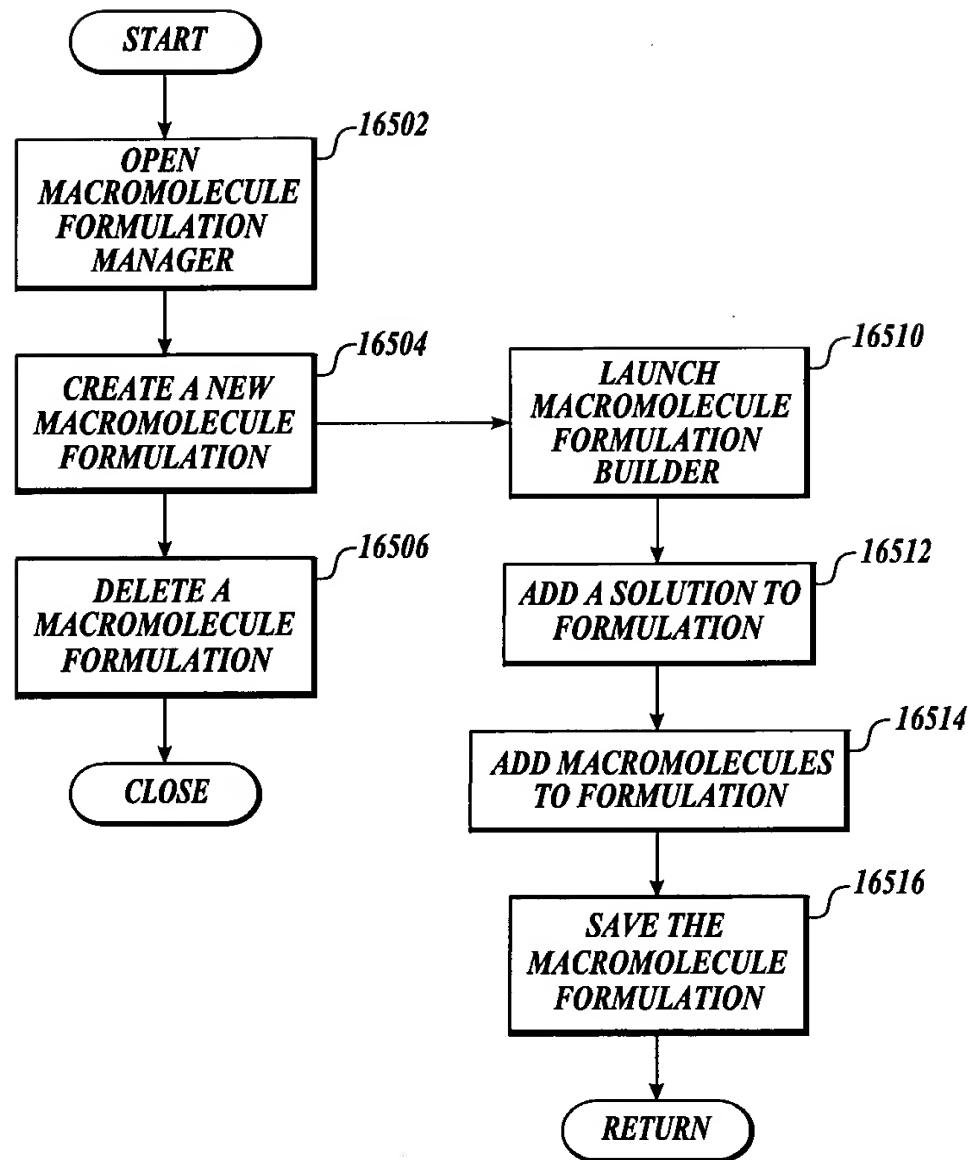


Fig. 165

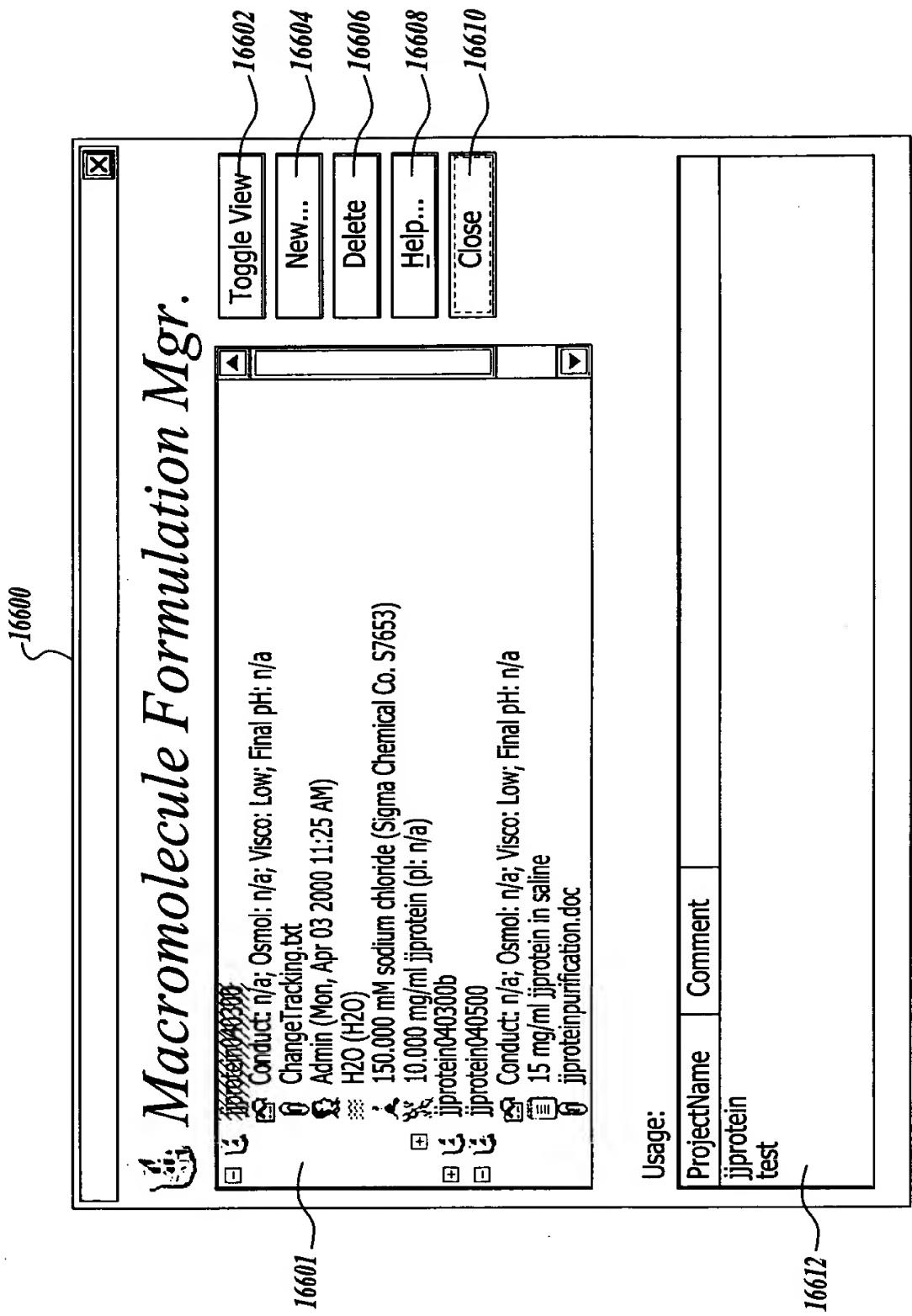


Fig. 166

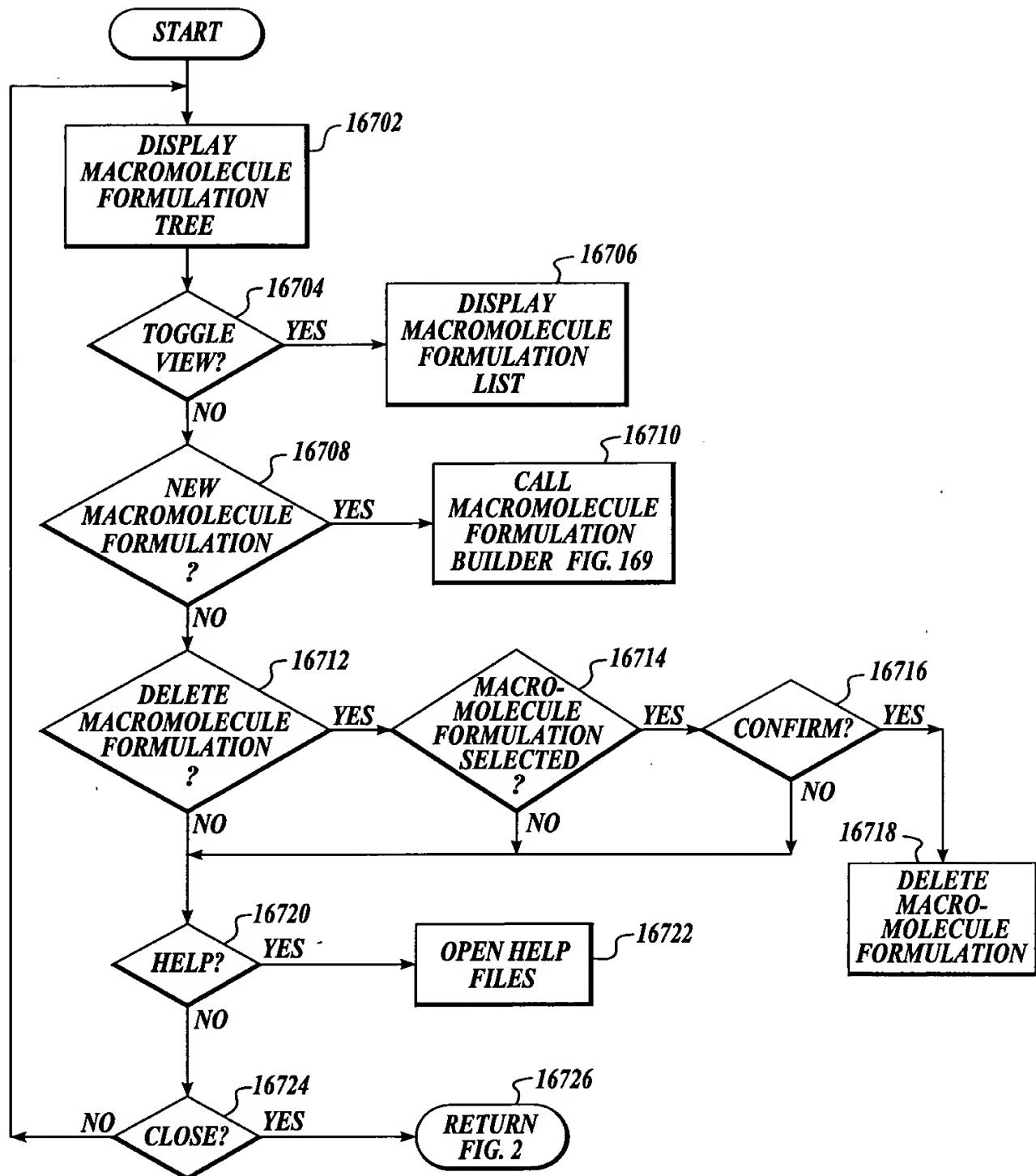


Fig. 167

169/262

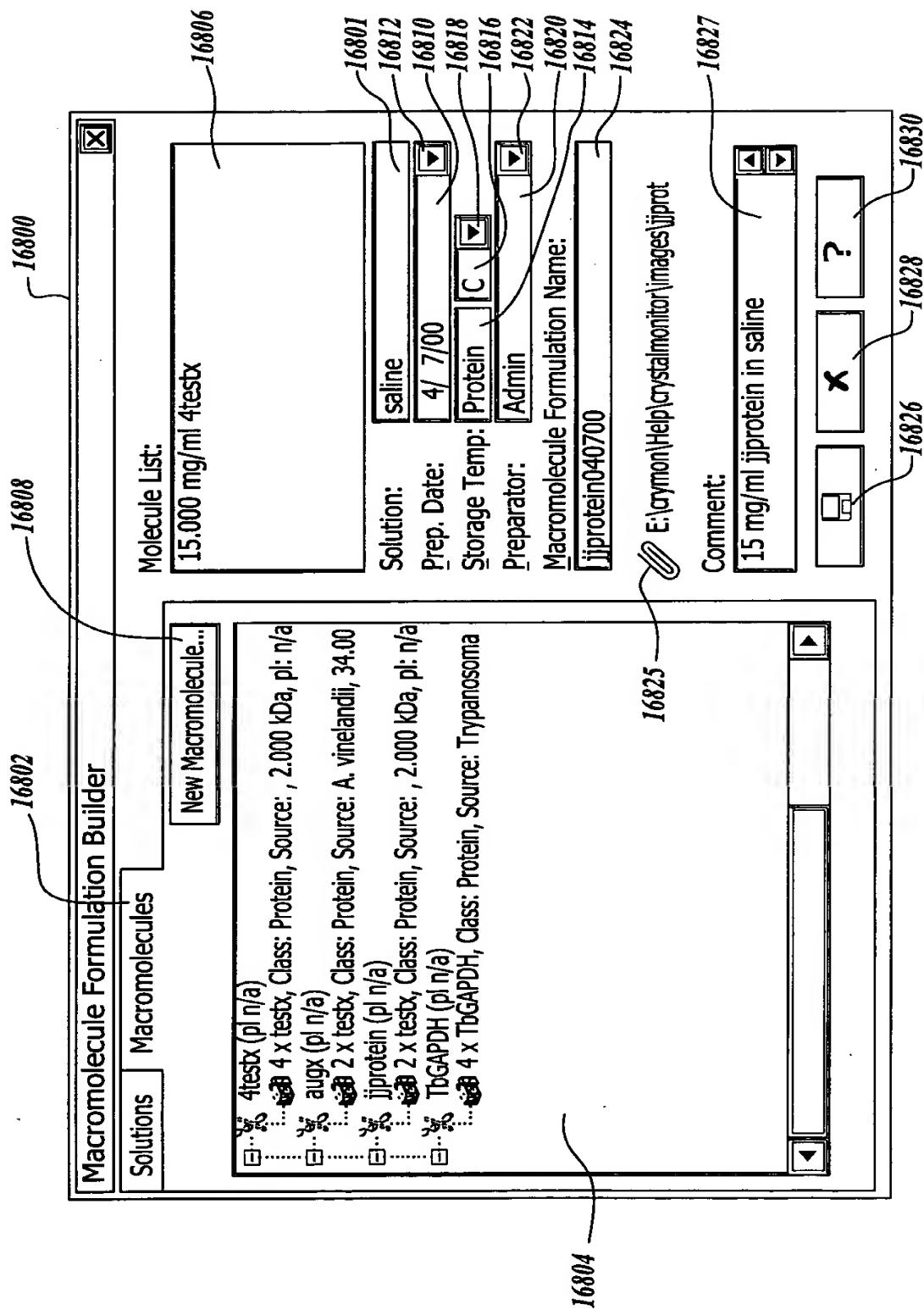


Fig. 168

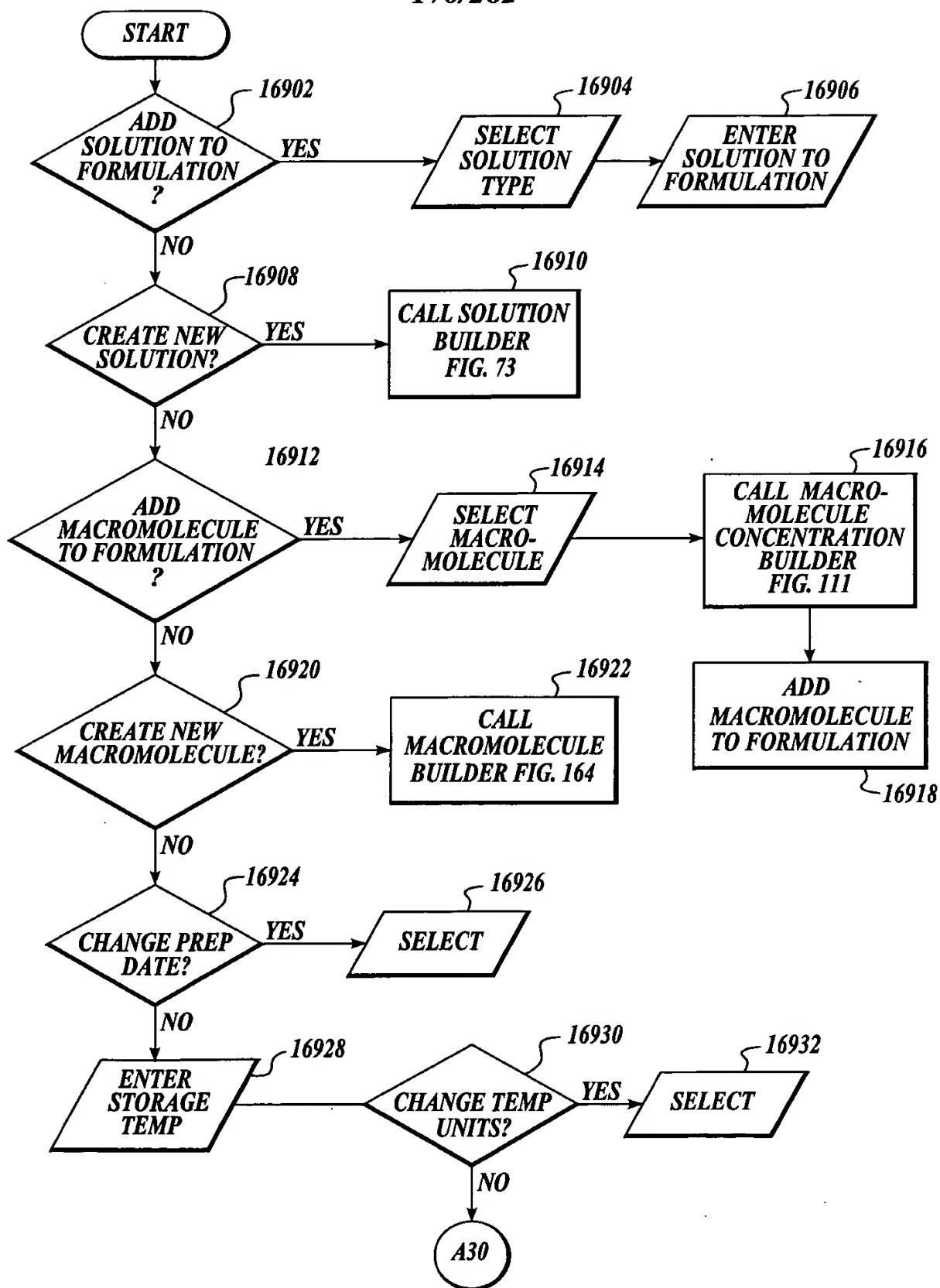


Fig. 169

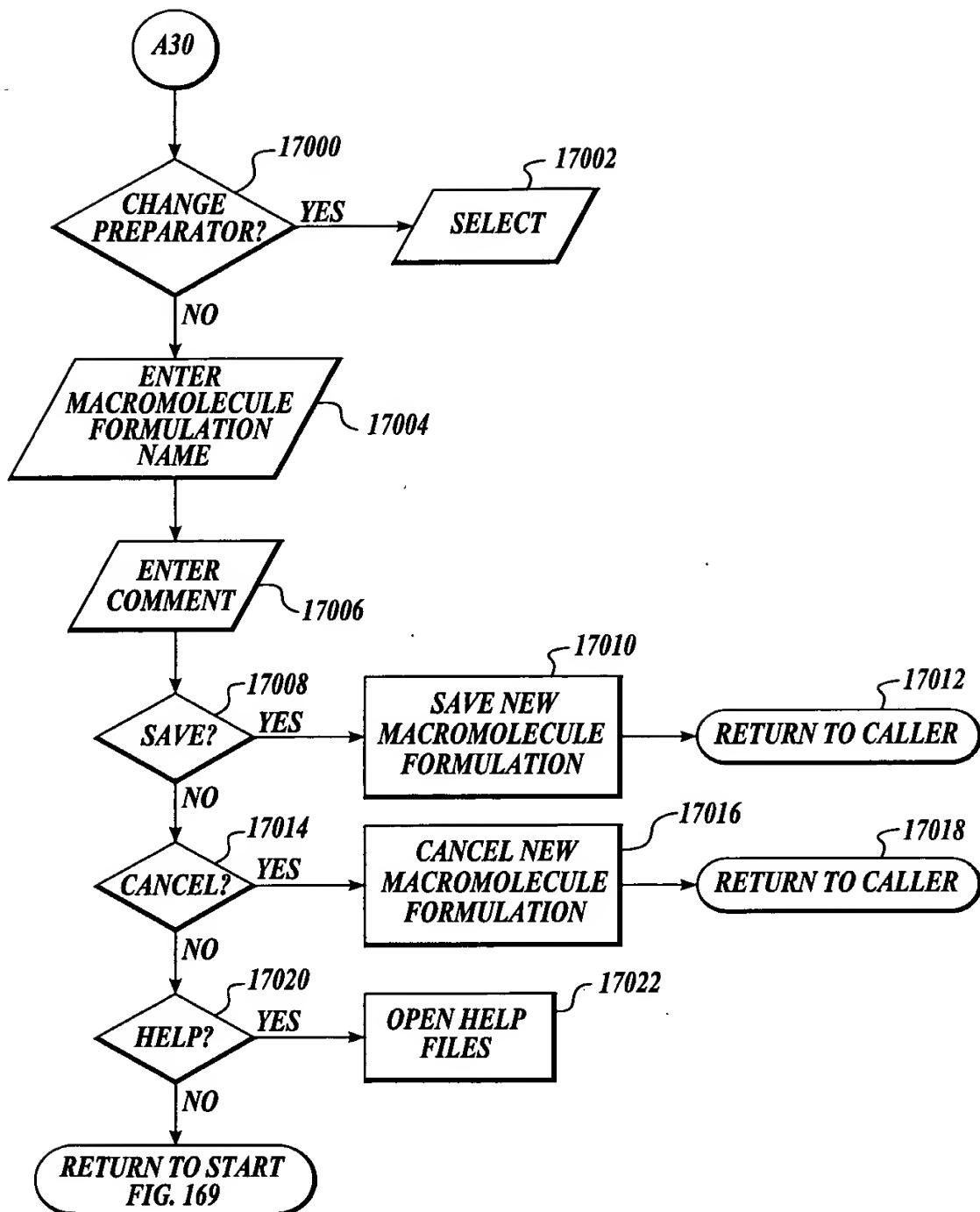


Fig. 170

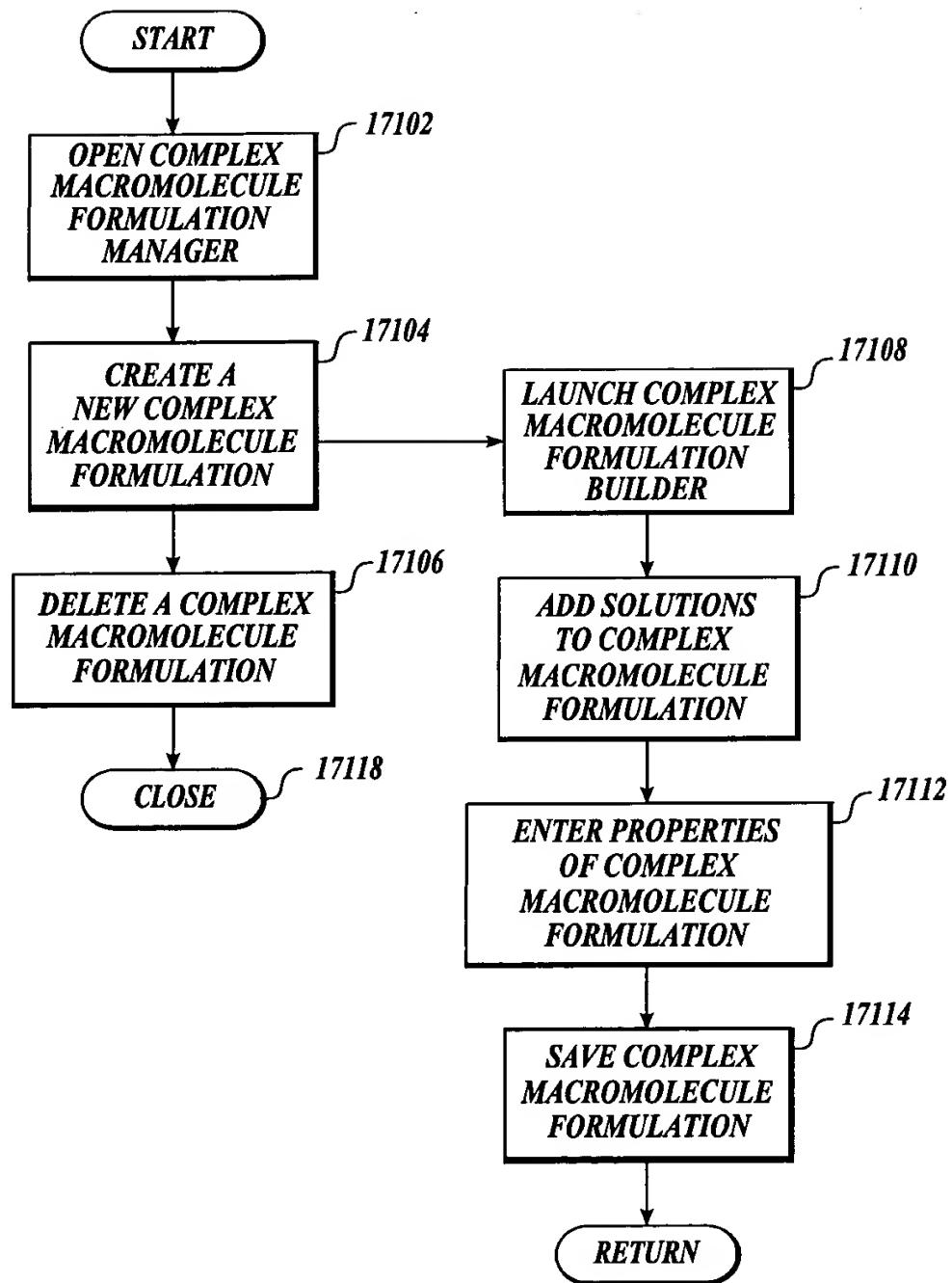


Fig. 171

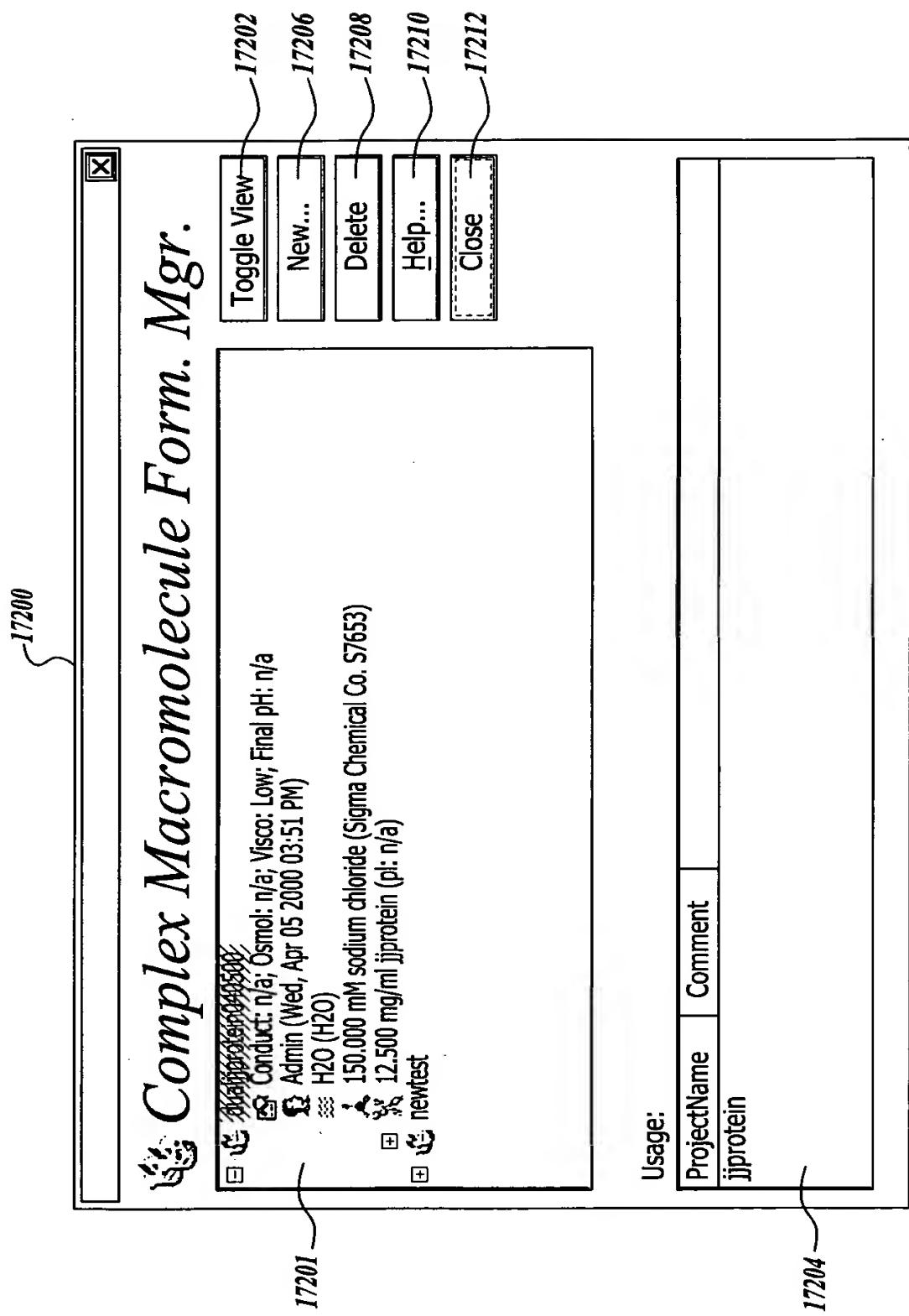


Fig. 172

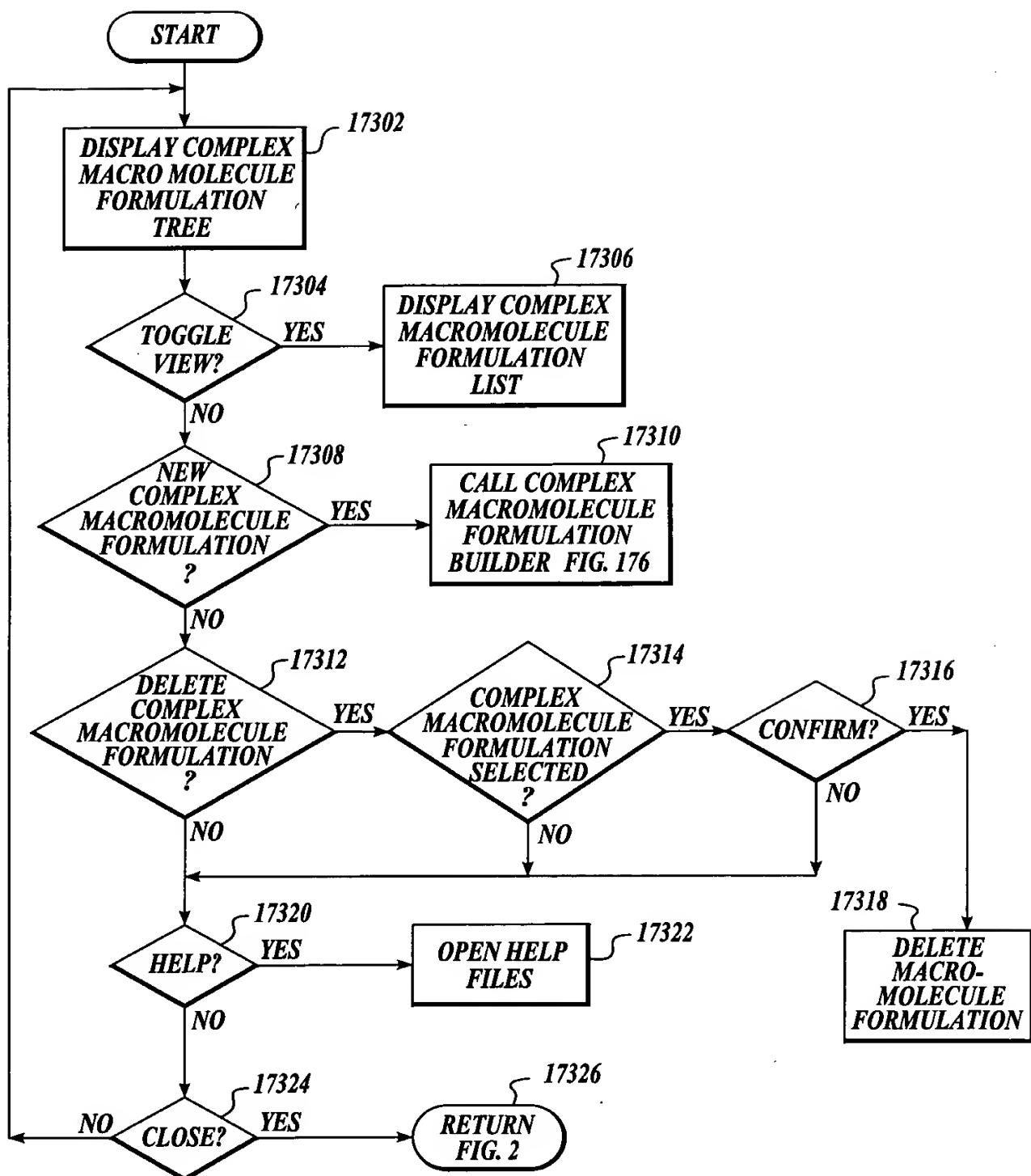


Fig. 173

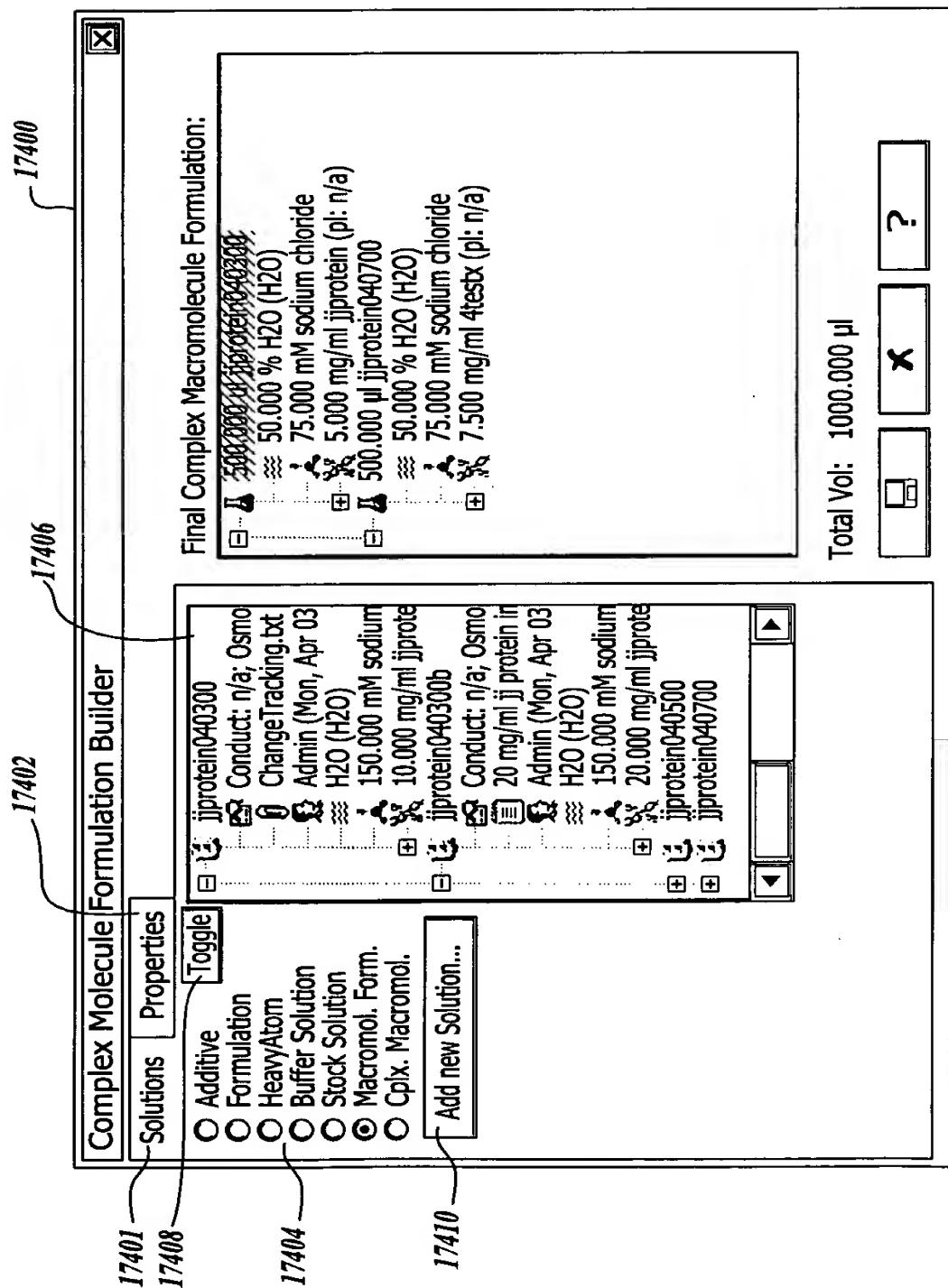


Fig. 174

Complex Molecule Formulation Builder	
Solutions	Properties
17501	17508
17502	17510
17506	17512
17520	17528
17522	17530
17524	17538
17526	
17534	
17536	
17538	
17540	
17542	
17544	
Timestamp: 4/7/00	
Storage Temp:	4
Preparator:	Admin
Final pH:	0
Conductivity	μS/cm
Vapor Pressure Osmolarity:	mmole/kg
Solvent:	H2O (Mothe)
New Solution Name:	Jproteincomplex37
Viscosity:	Low
Comment:	High
mix jjprotein040300 and jjprotein040700	
Total Vol: 1000.000 μl	
X ?	

Final Complex Macromolecule Formulation:

- 500.000 μl jjprotein040300
- 50.000 % H2O (H2O)
- 75.000 mM sodium chloride
- 5.000 mg/ml jjprotein (pI: n/a)
- 500.000 μl jjprotein040700
- 50.000 % H2O (H2O)
- 75.000 mM sodium chloride
- 7.500 mg/ml 4testx (pI: n/a)

17514
17516
17518
17534

clip

Fig. 175

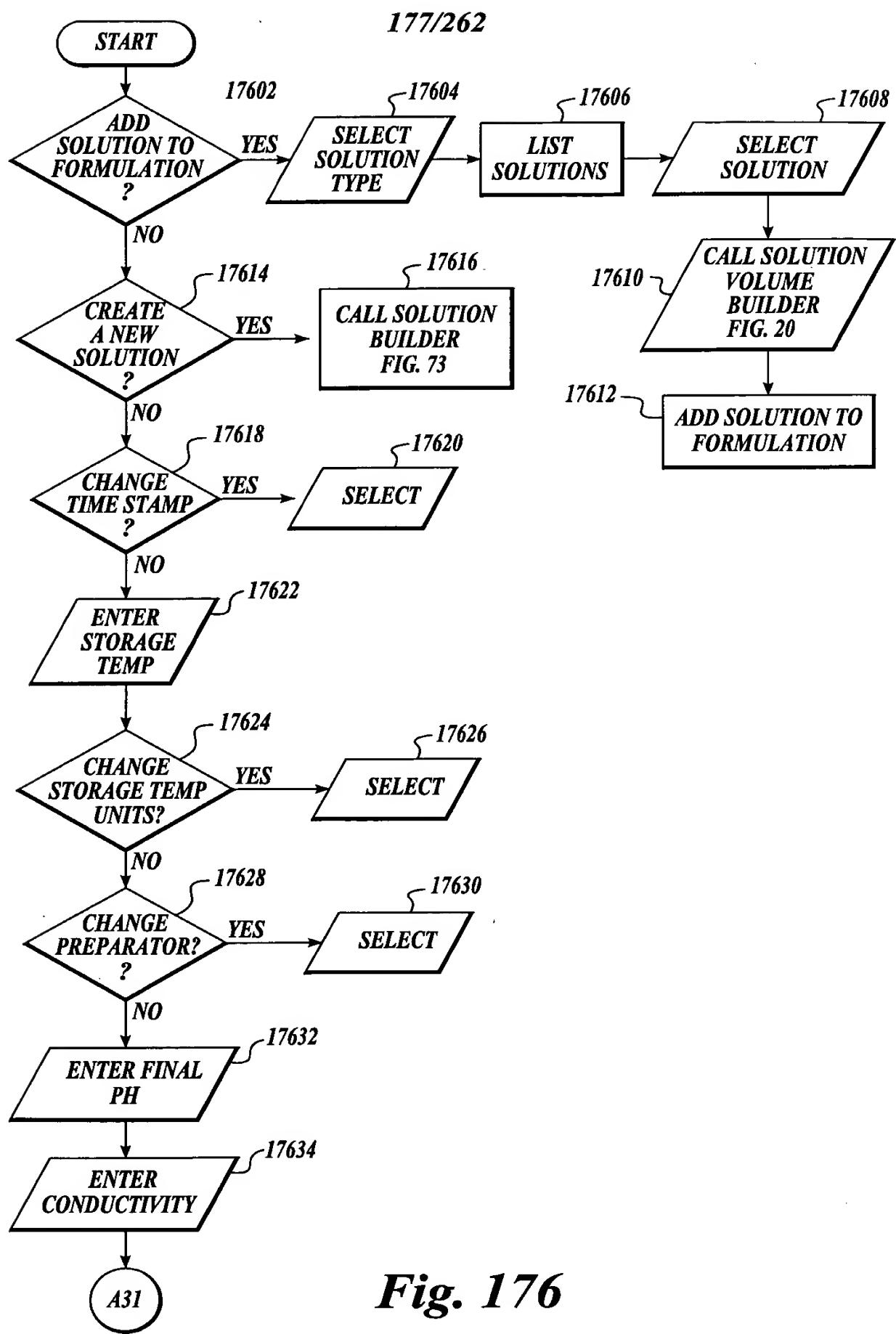


Fig. 176

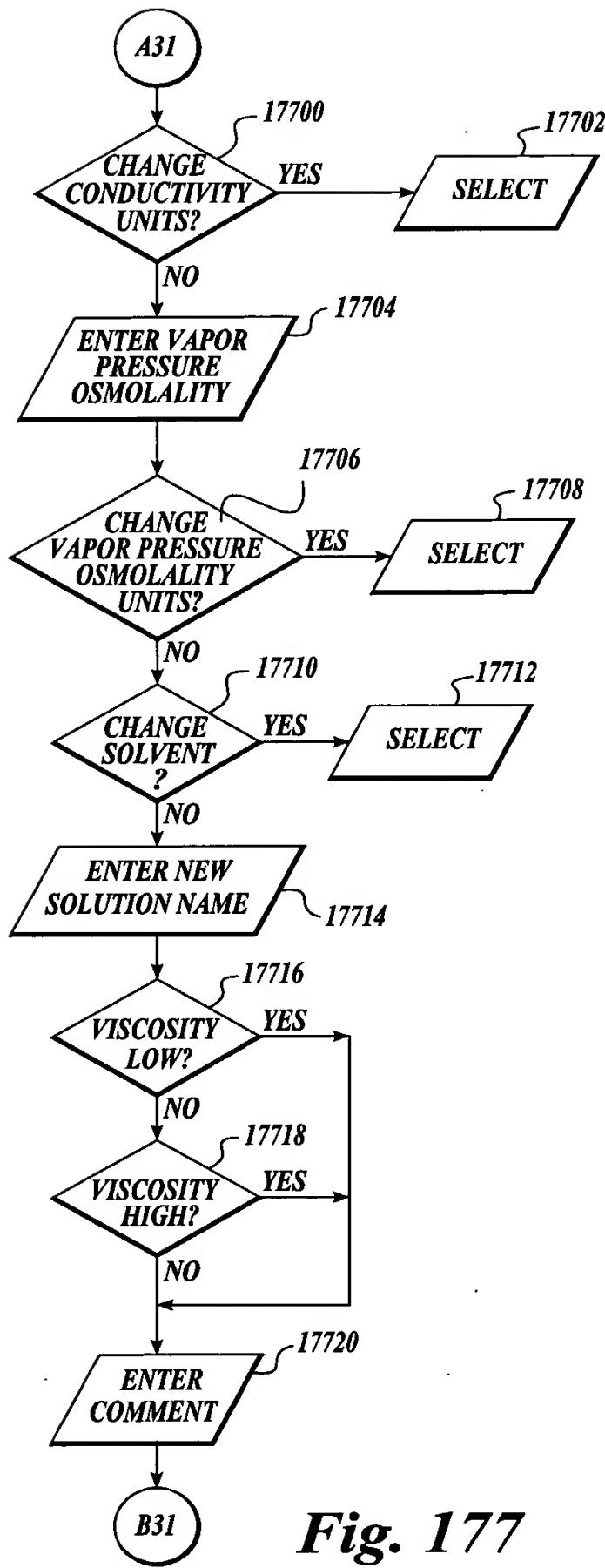


Fig. 177

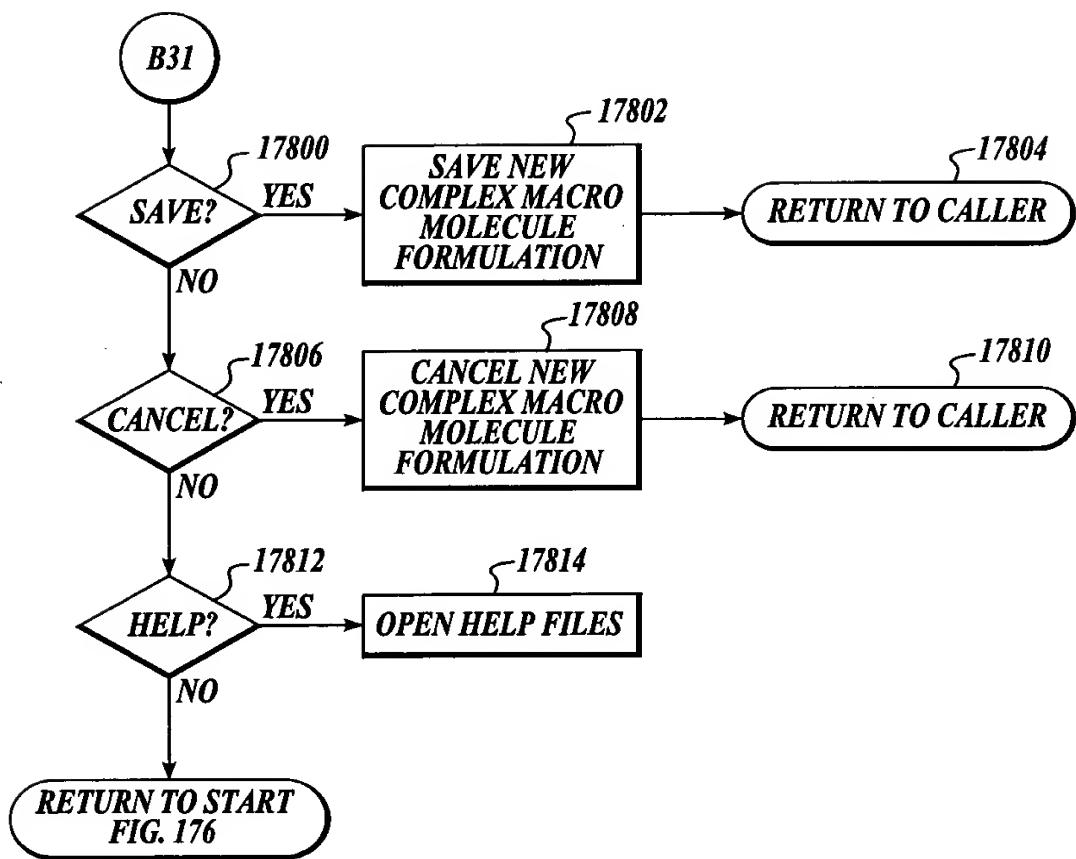


Fig. 178

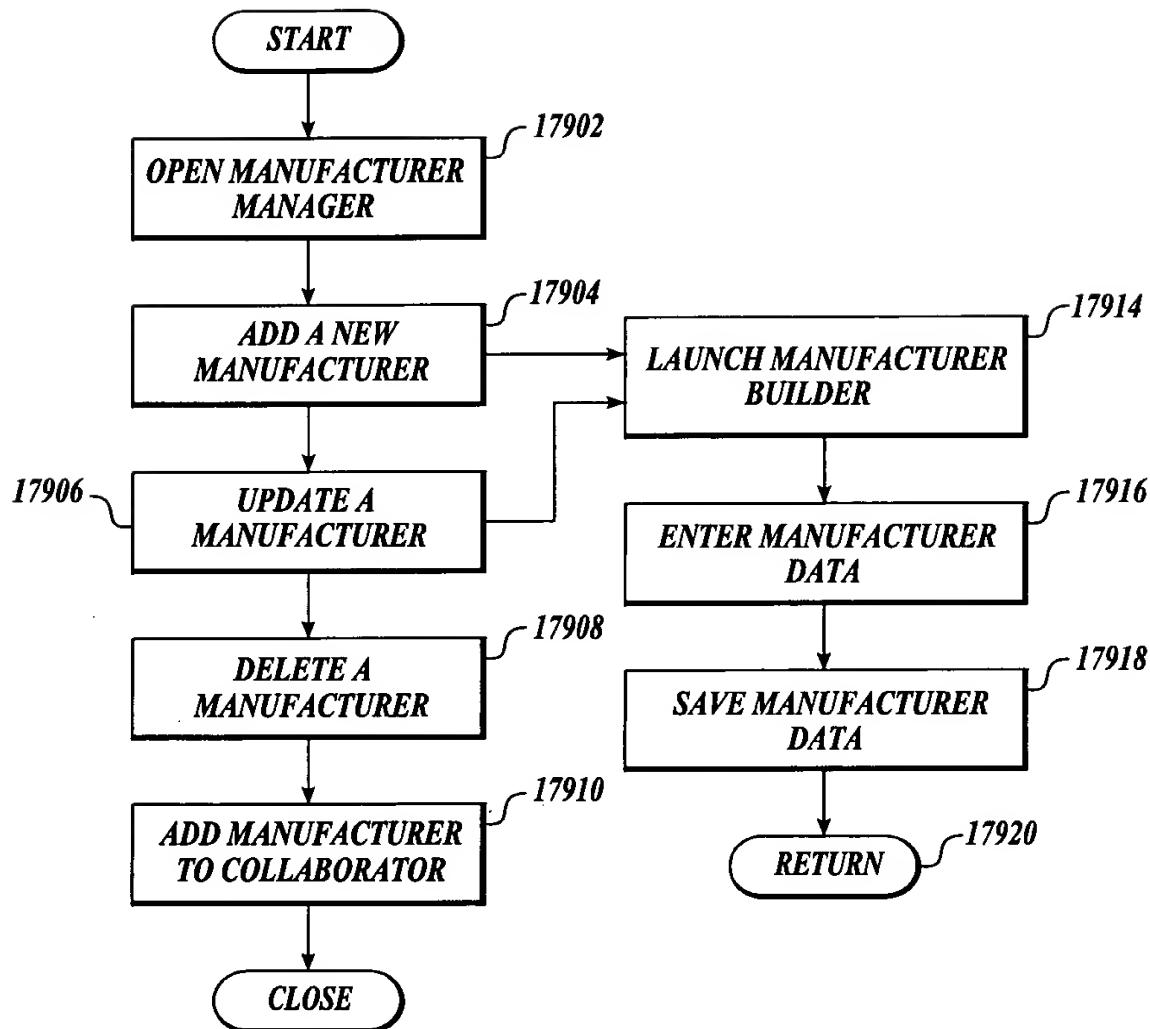


Fig. 179

-18000

Manufacturer Manager

Name	Phone	Street	City
Mother Earth	(800) 123-4567	Atmosphere and...	Milky Way
Emerald BioStructures, Inc.	(888) 780-8535	7865 NE Day R...	Bainbridge Isla...
Sigma Chemical Co.	(800) 325-3010	P.O. Box 14508	St. Louis
Fluka Chemical Corp.	(800) 358-5287	1001 W St. Paul...	Milwaukee
Aldrich Chemical Co.	(800) 558-9160	P.O. Box 2060	Milwaukee
Fisher Scientific Co.	(800) 766-7000	585 Alpha Dr.	Pittsburgh
VWR Scientific Products Co...	(800) 932-5000	1310 Goshen P...	West Chester
J. T. Baker	(800) 582-2537	222 Red School...	Phillipsburg
Promega Corp.	(800) 356-9526	2800 Woods Ho...	Madison
Pierce Chemical Co.	(800) 874-3723	3747 N Meridian...	Rockford
Mallinckrodt	(800) 354-2050	222 Red School...	Phillipsburg
ICN Pharmaceuticals, Inc.	(800) 854-0530	3300 Hyland Ave.	Costa Mesa
Bio-Rad Laboratories	(800) 424-6723	2000 Alfred Nob...	Hercules
Amersham Pharmacia Biote...	(800) 526-3593	800 Centennial ...	Piscataway
Invitrogen Corp.	(800) 955-6288	1600 Faraday A...	Carlsbad
Calbiochem-Novabiochem C...	(800) 854-3417	P.O. Box 12087	La Jolla
Hampton Research Corp.	(800) 452-3899	27632 El Lazo Rd.	Laguna Niguel

New... 18002

Update... 18004

Delete... 18006

Add to Collab... 18008

Help... 18010

Close... 18012

Fig. 180

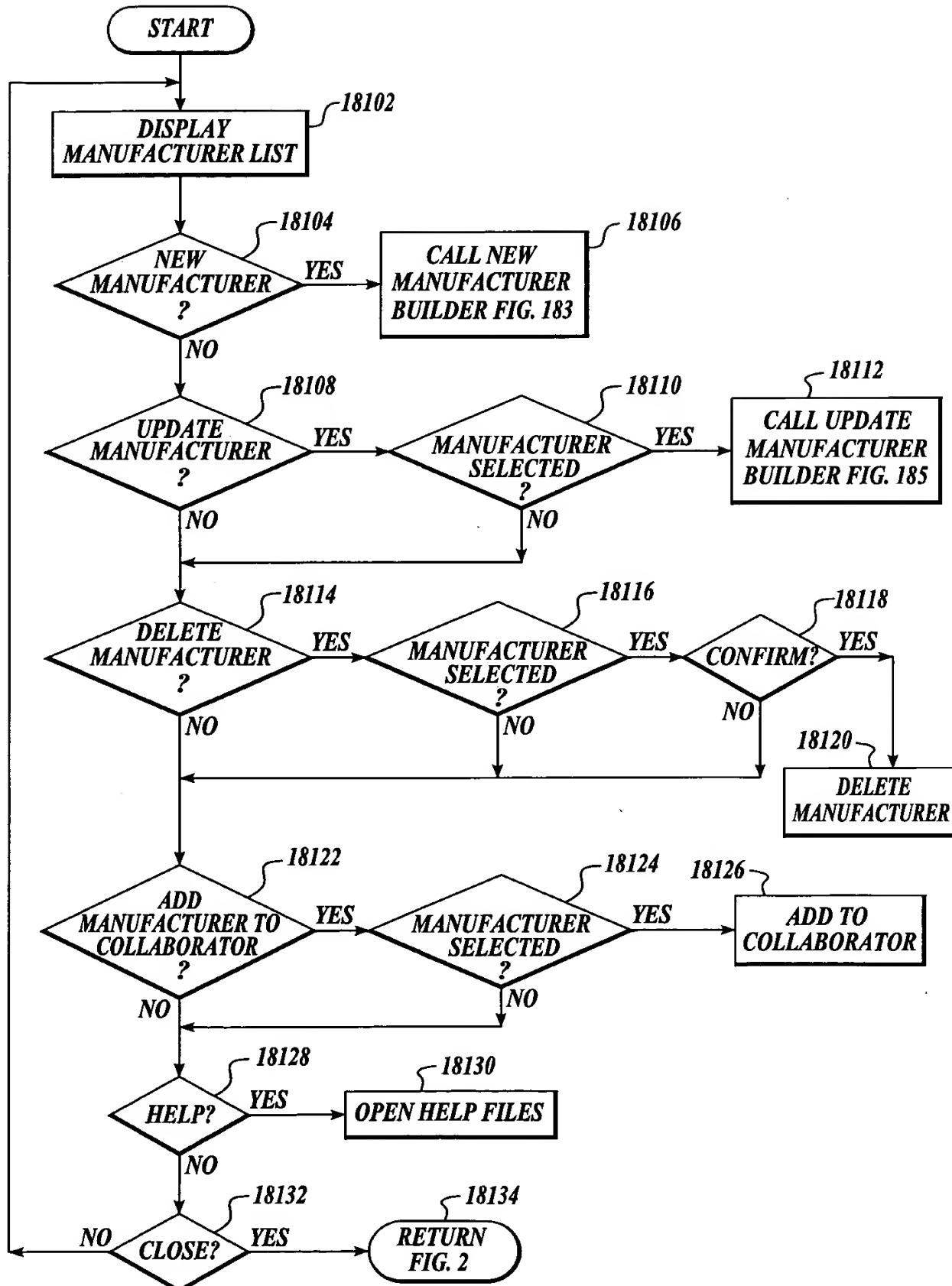


Fig. 181

Update Emerald BioStructures, Inc.

Name:	<input type="text" value="Emerald BioStructures, Inc."/>	18200
Phone:	<input type="text" value="(888) 780-8535"/>	18202
Street:	<input type="text" value="7865 NE Day Rd. W."/>	18204
City:	<input type="text" value="Bainbridge Island"/>	18206
State:	<input type="text" value="WA"/>	18208
Zip:	<input type="text" value="98110"/>	18210
Country:	<input type="text" value="USA"/>	18212
Email:	<input type="text" value="info@emeraldbiostructures.com"/>	18214
HTTP:	<input type="text" value="http://www.emeraldbiostructures.com"/>	18216
Fax:	<input type="text" value="(206) 780-8547"/>	18218
Dept:	<input type="text"/>	18220
<input type="button" value="OK"/> <input type="button" value="Cancel"/>		18222

18224 18226

Fig. 182

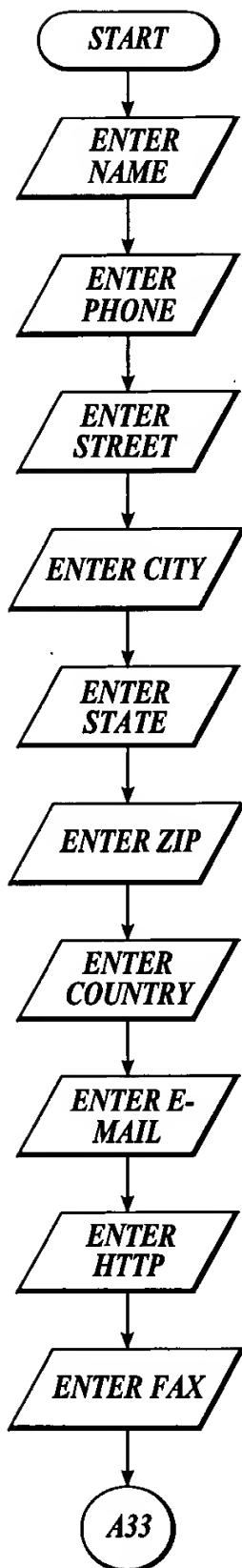


Fig. 183

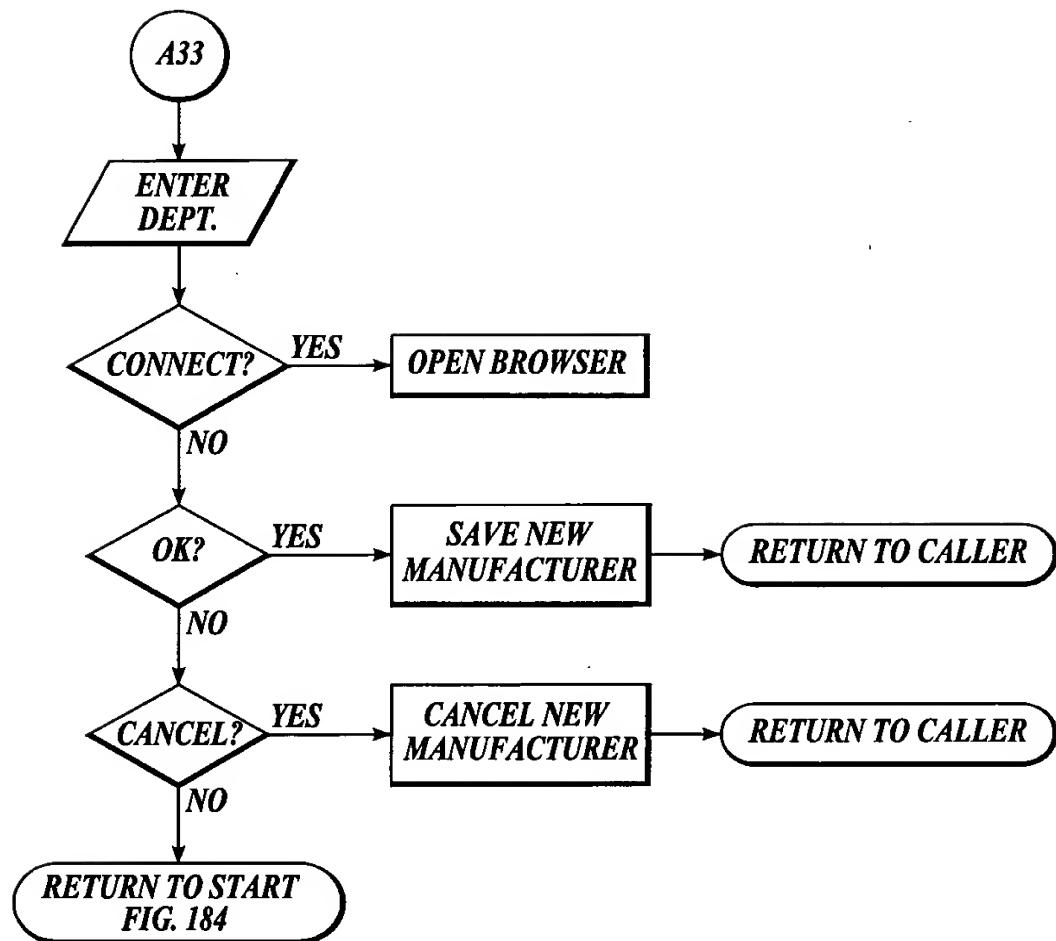


Fig. 184

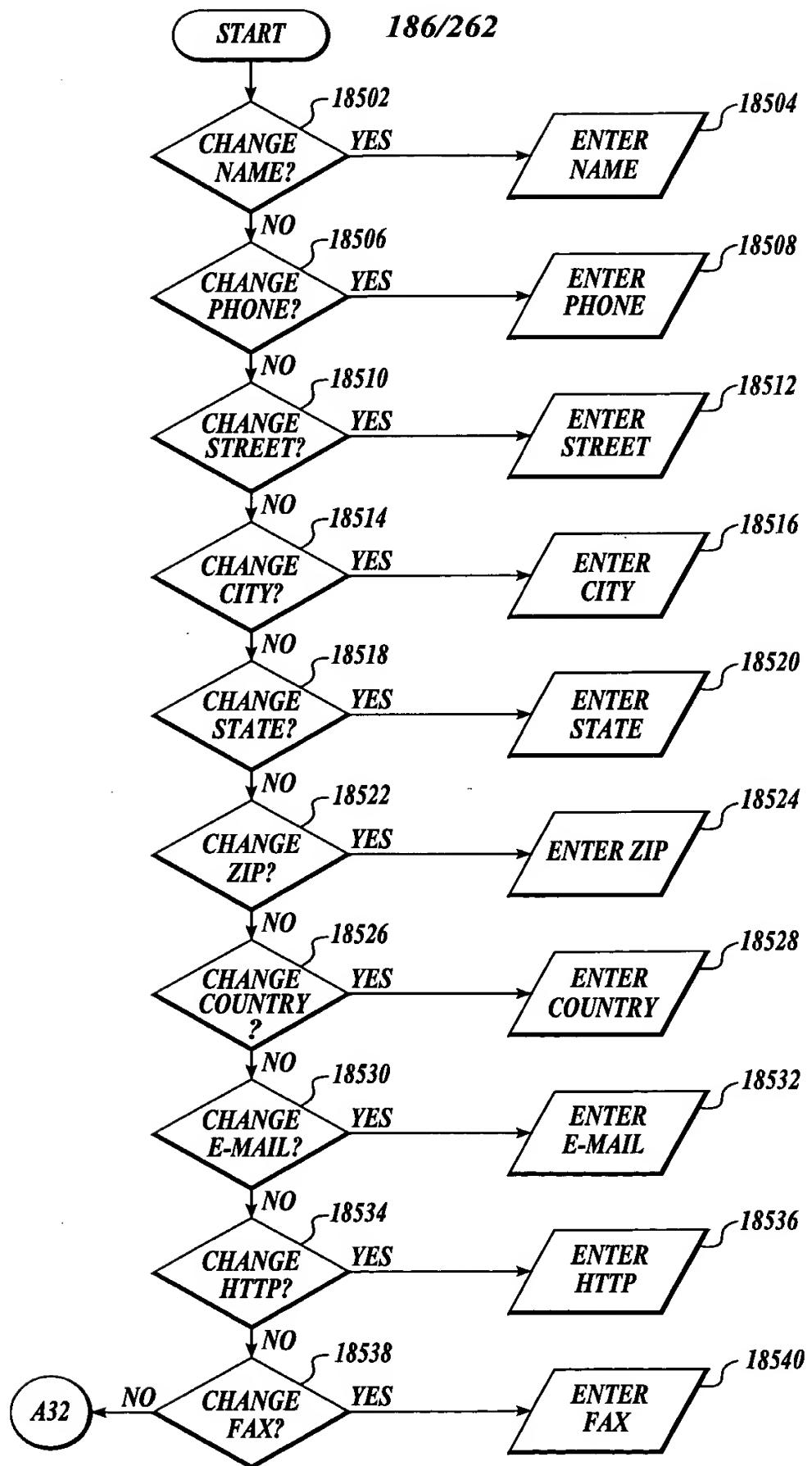


Fig. 185

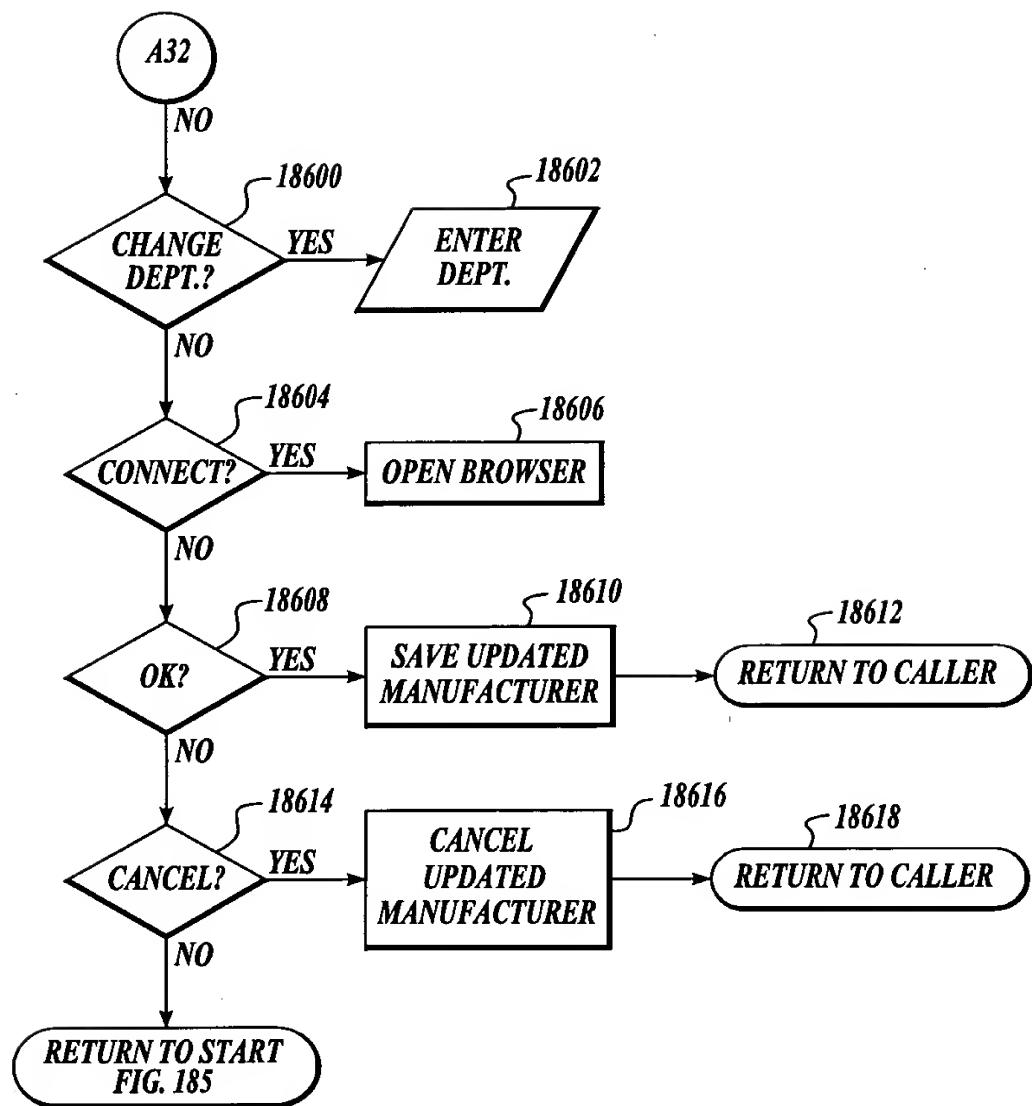


Fig. 186

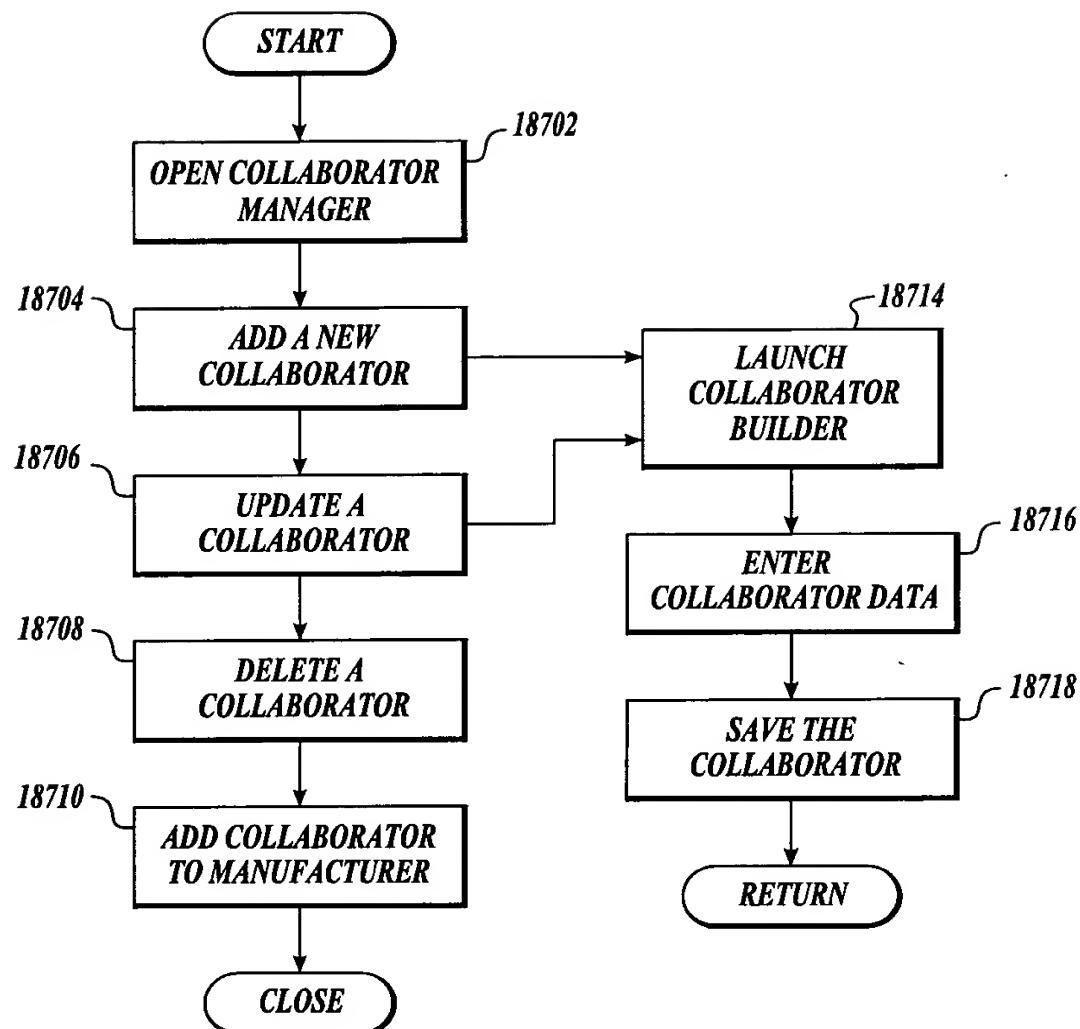


Fig. 187

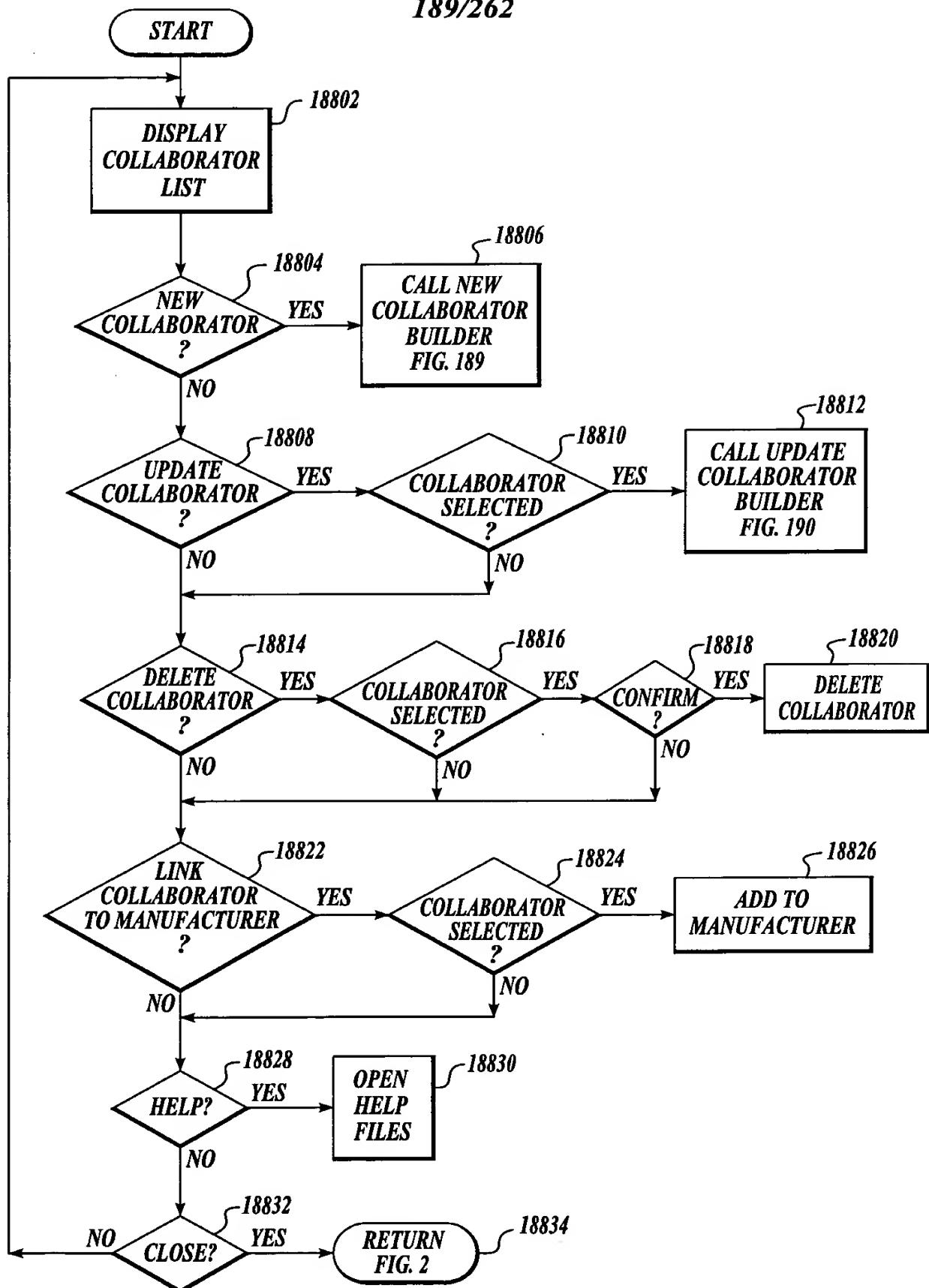


Fig. 188

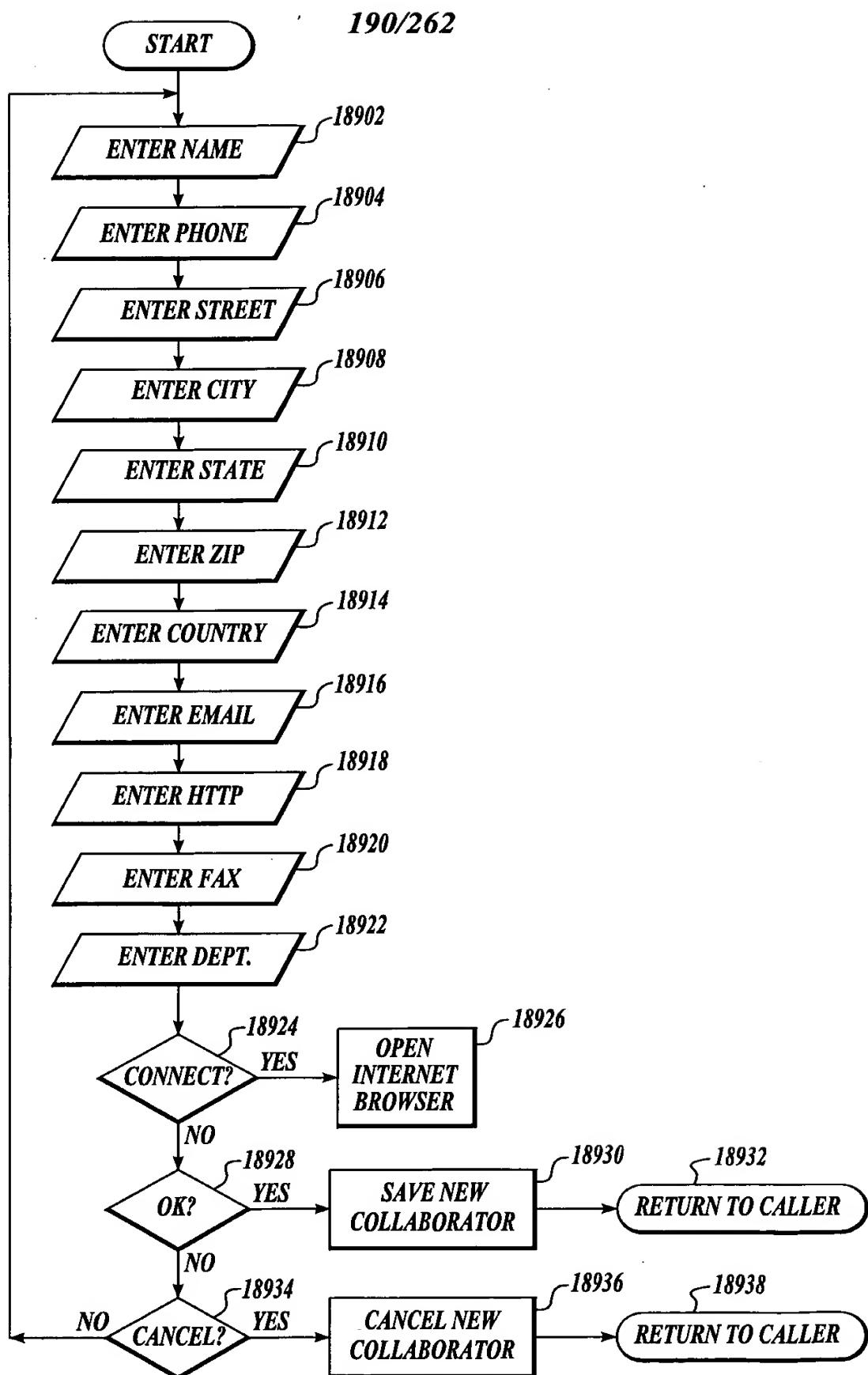
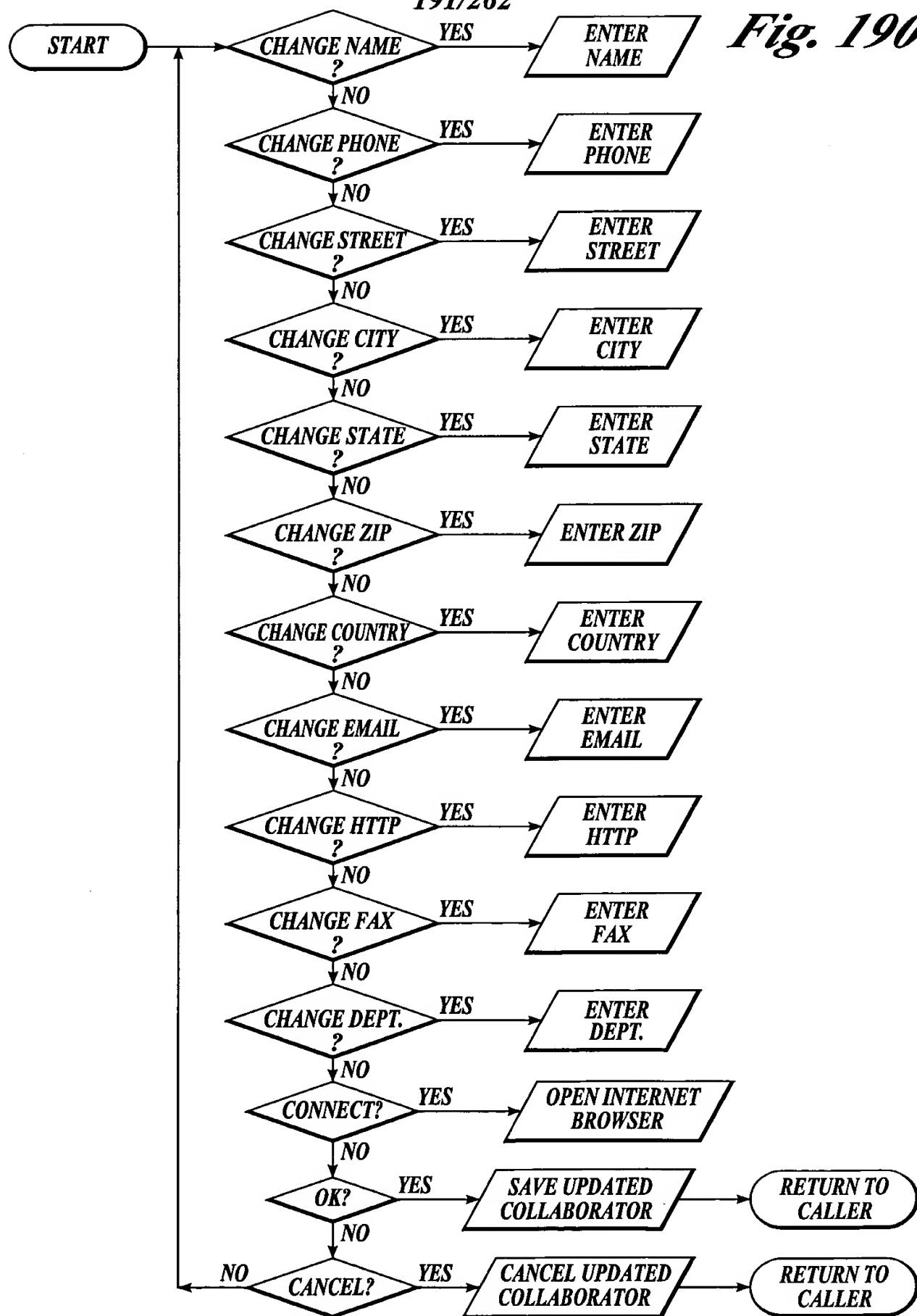


Fig. 189

191/262



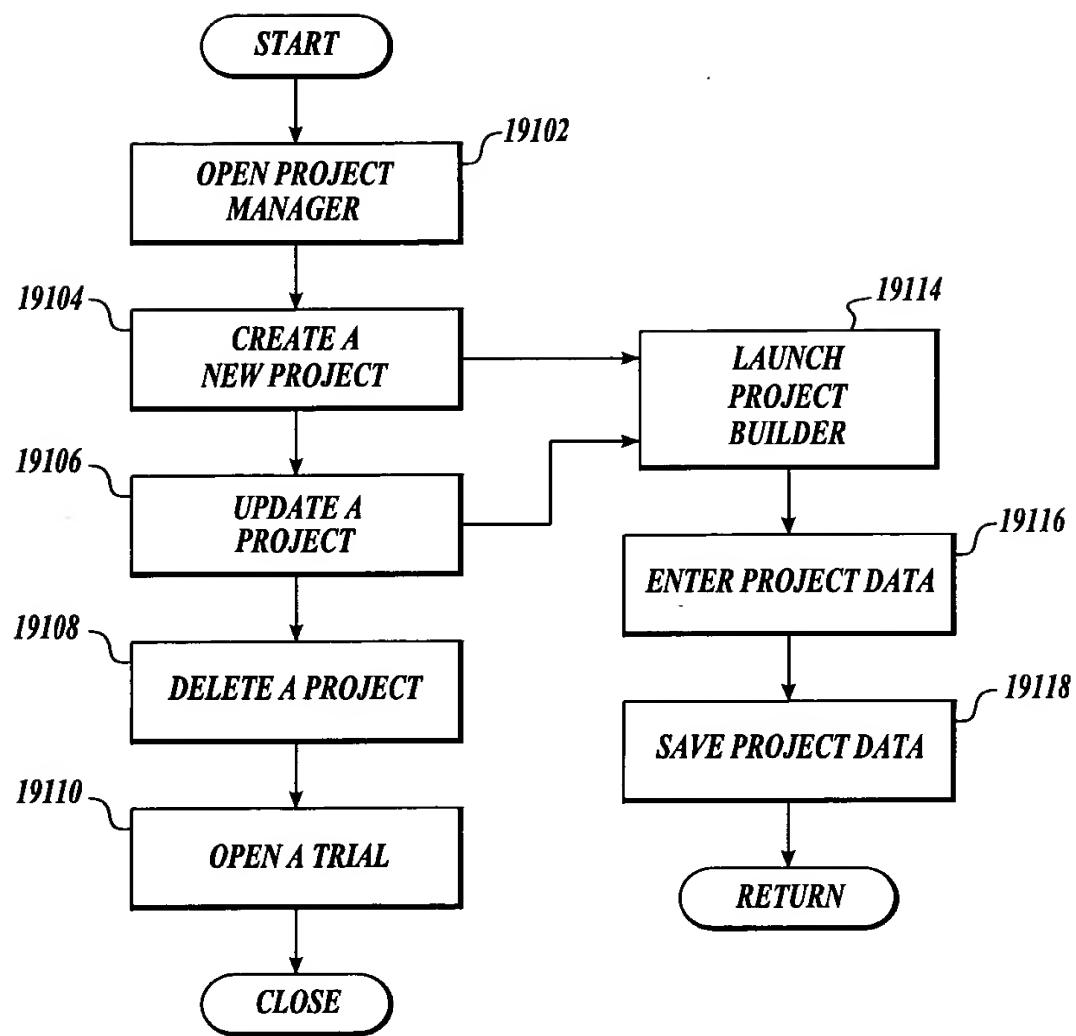


Fig. 191

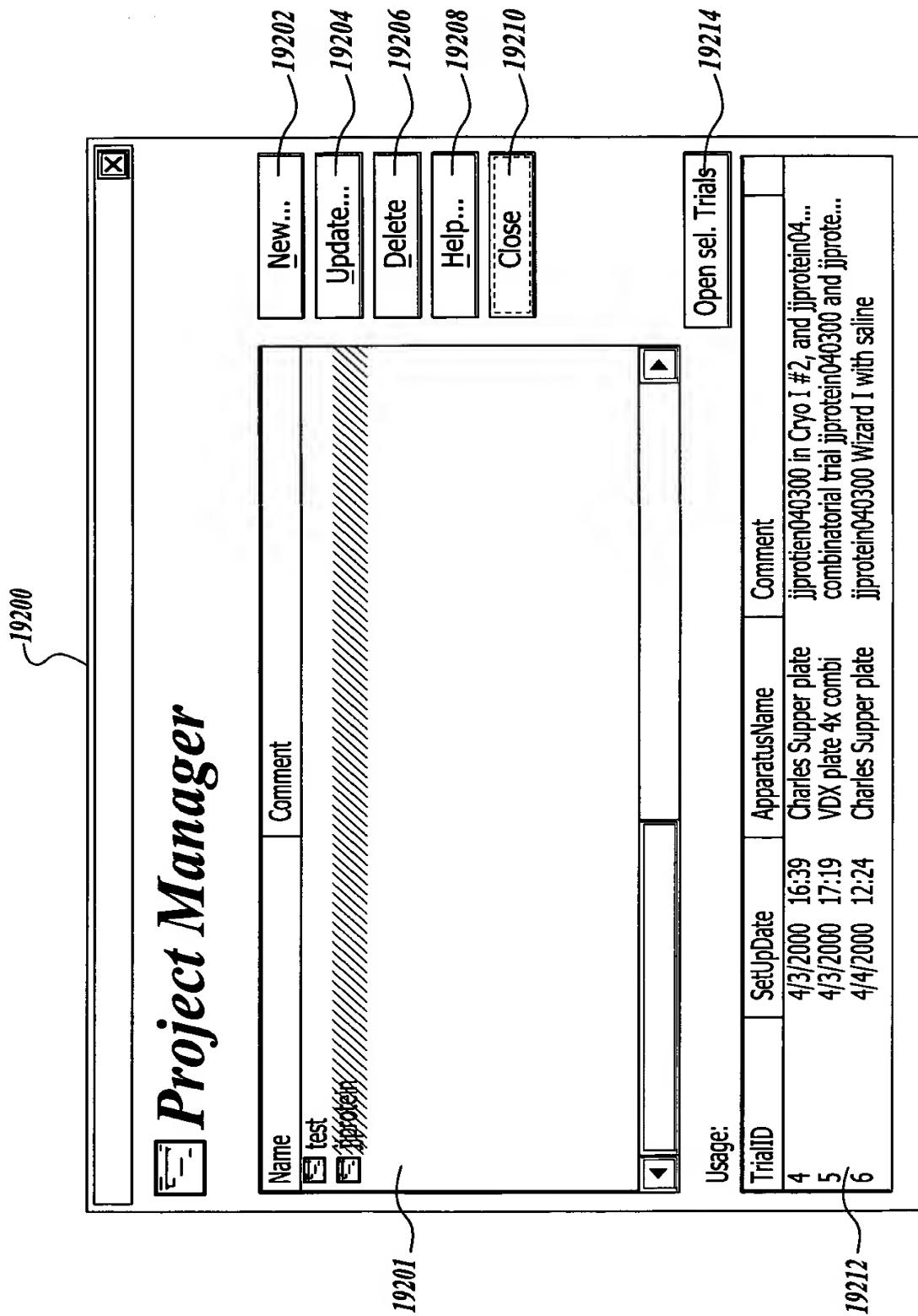


Fig. 192

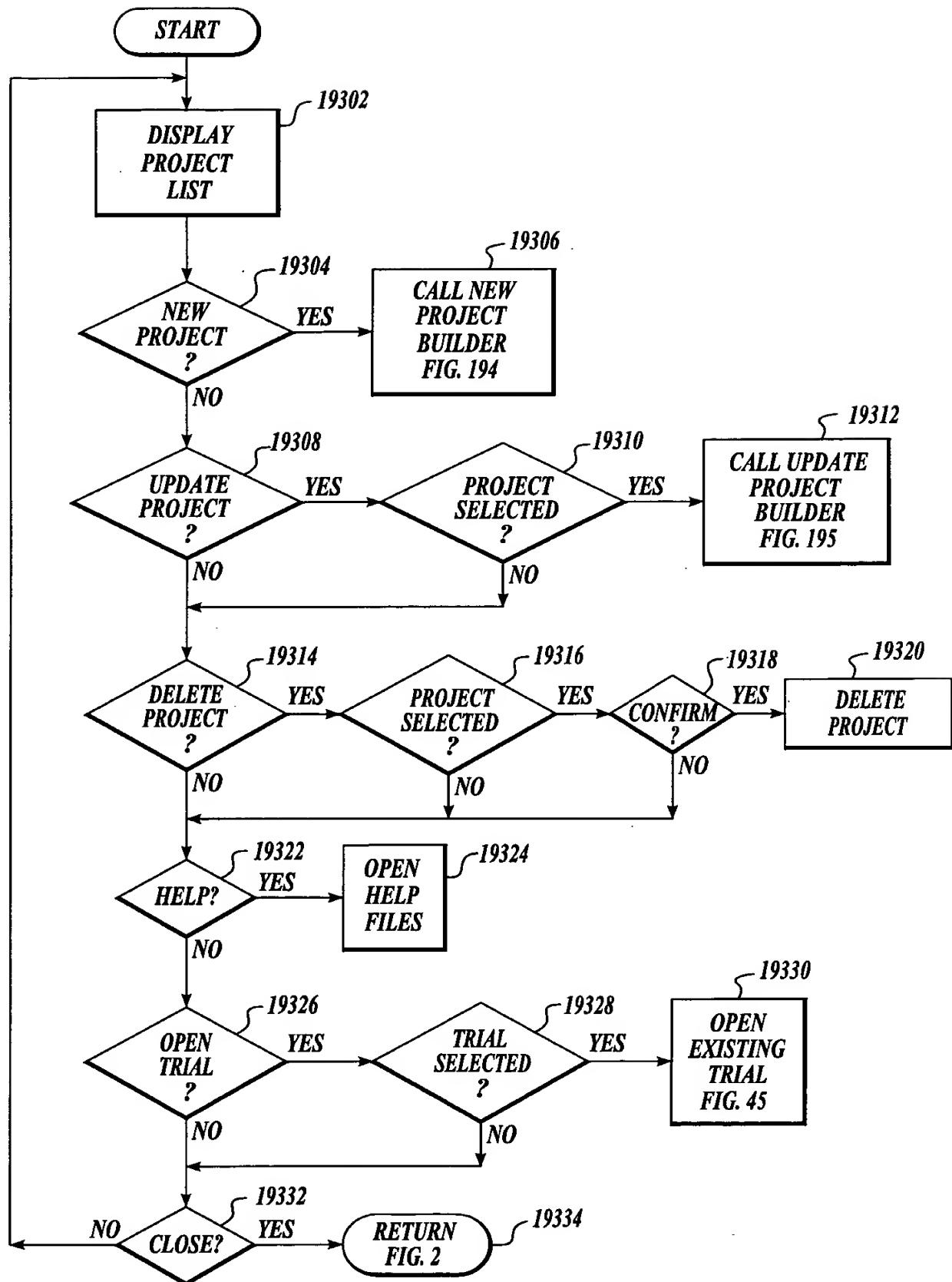


Fig. 193

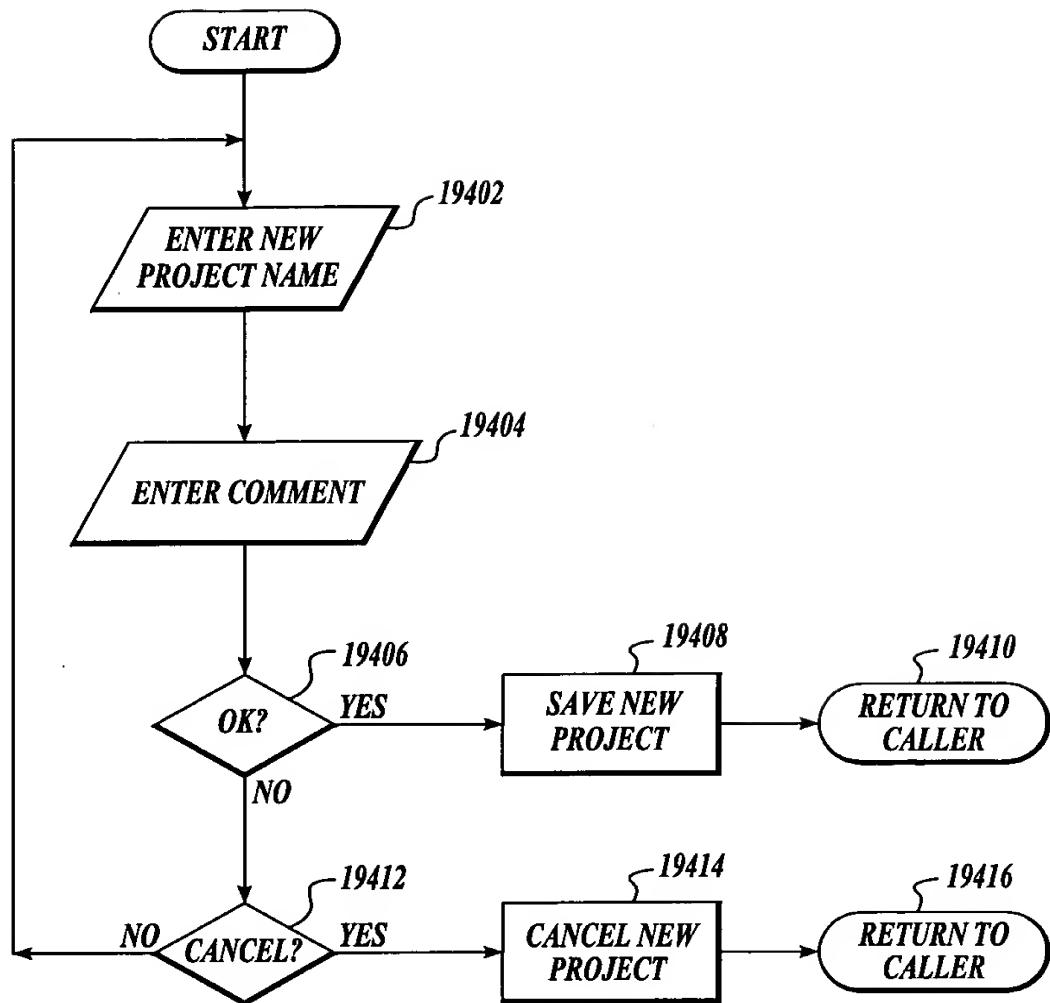


Fig. 194

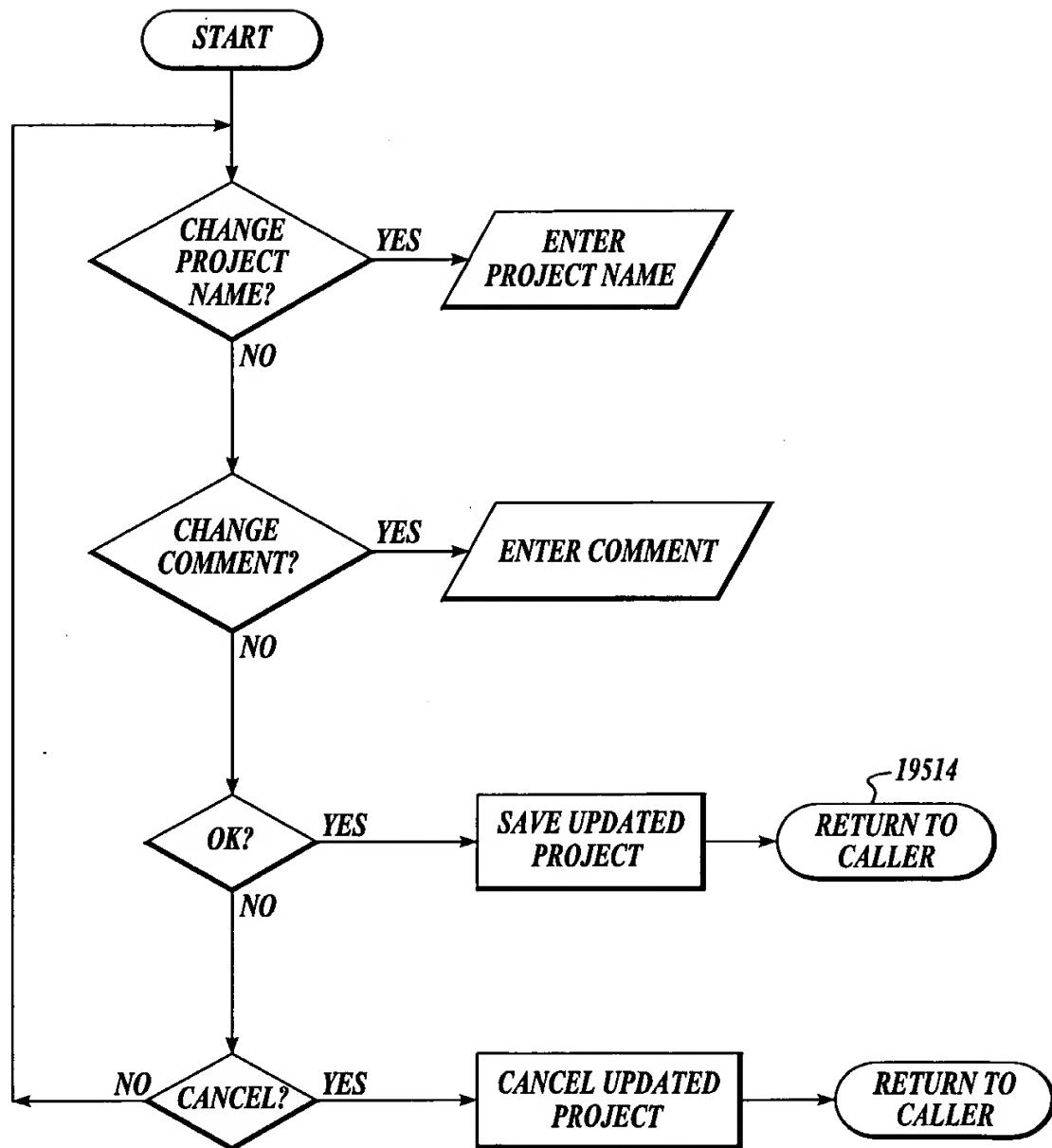


Fig. 195

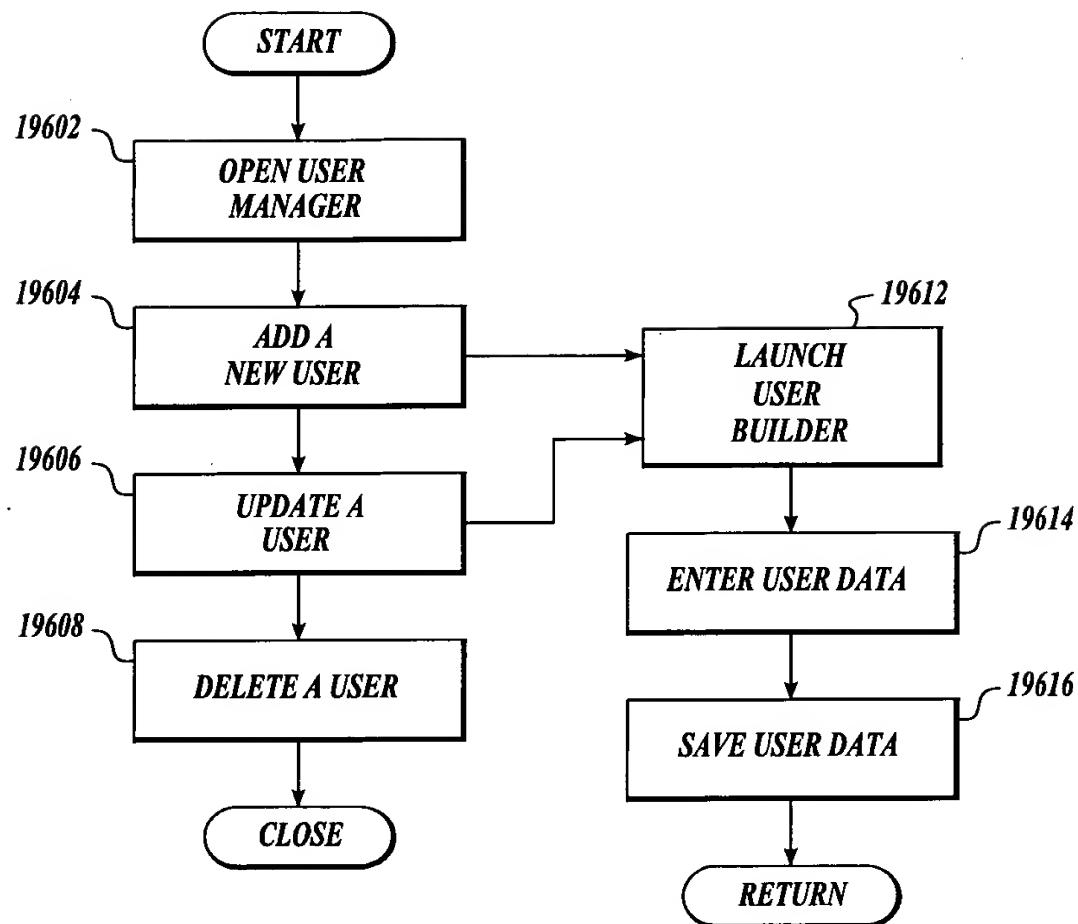


Fig. 196

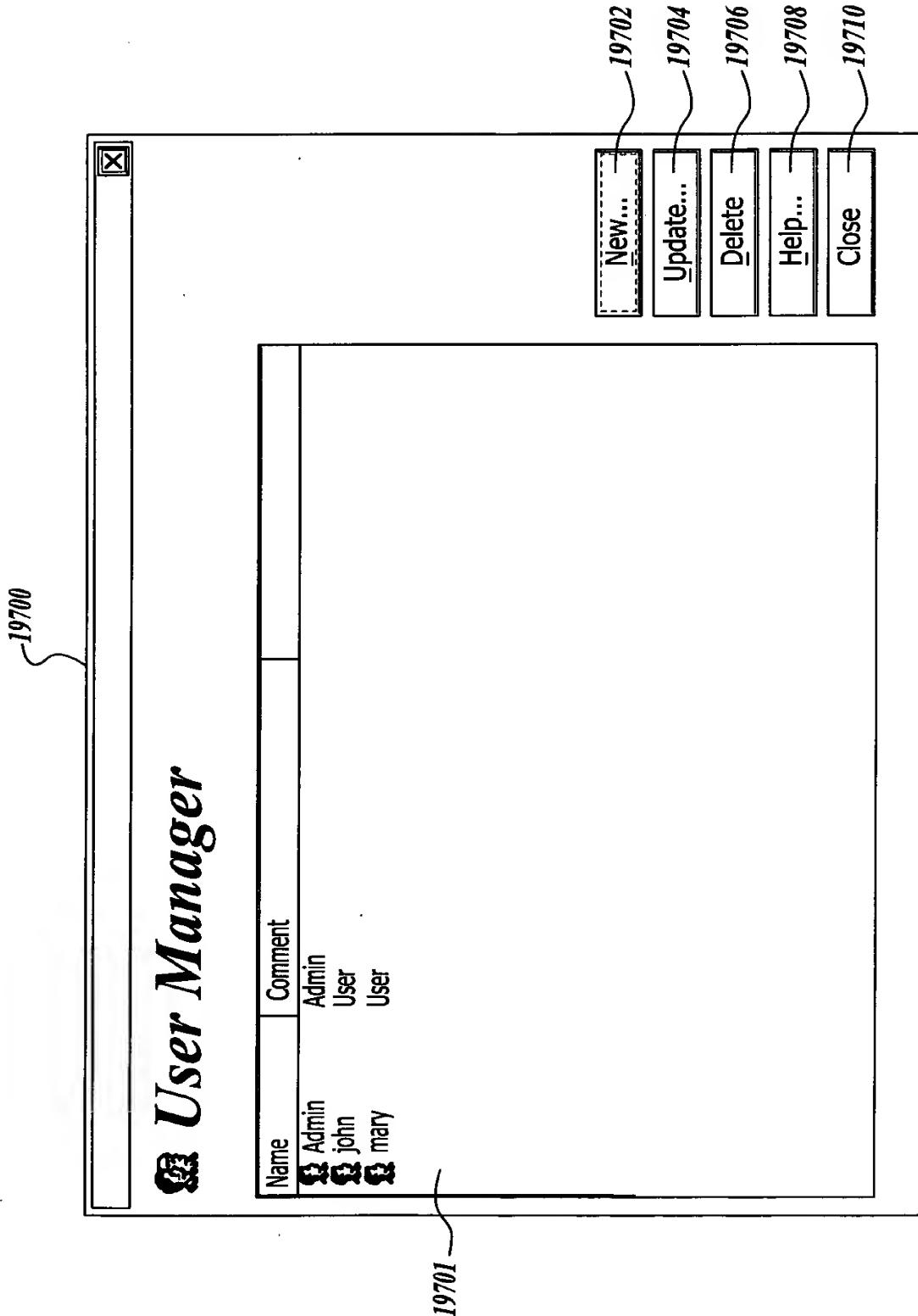


Fig. 197

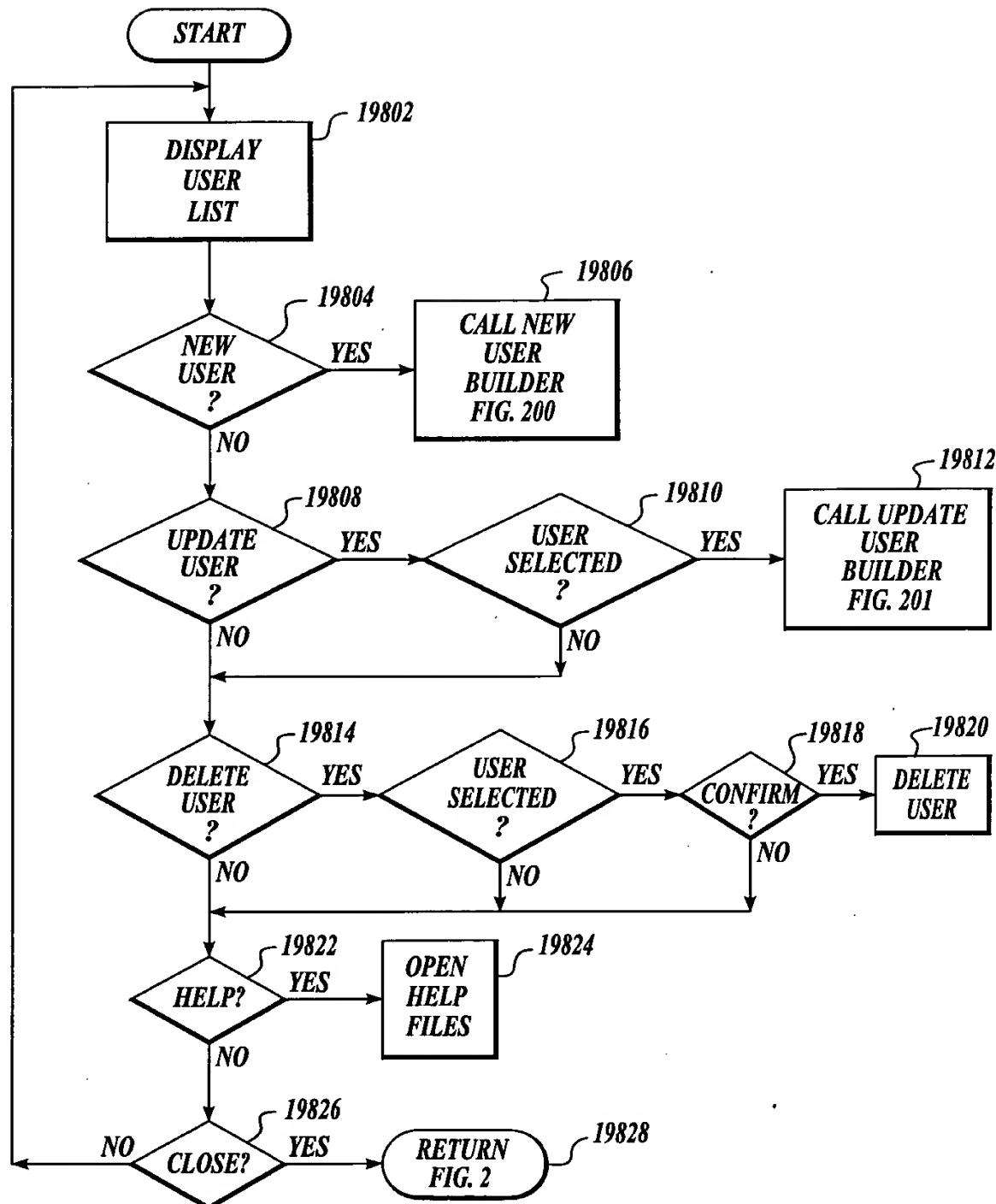


Fig. 198

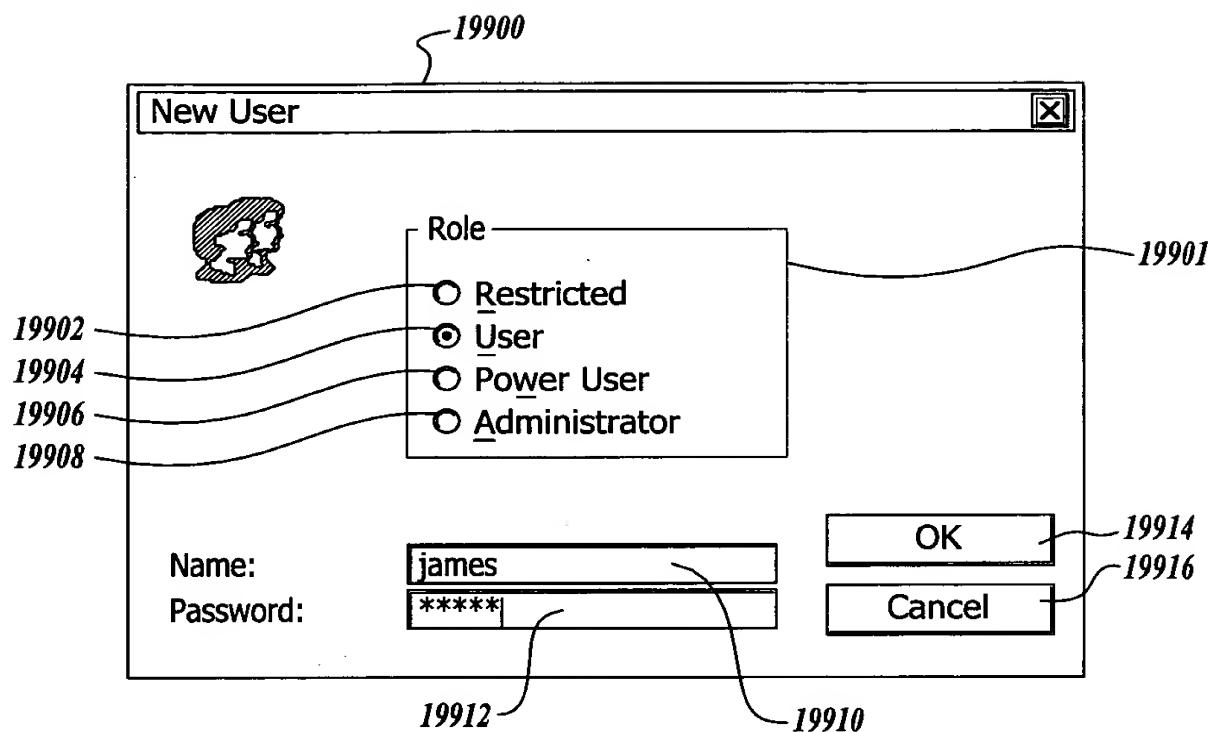


Fig. 199

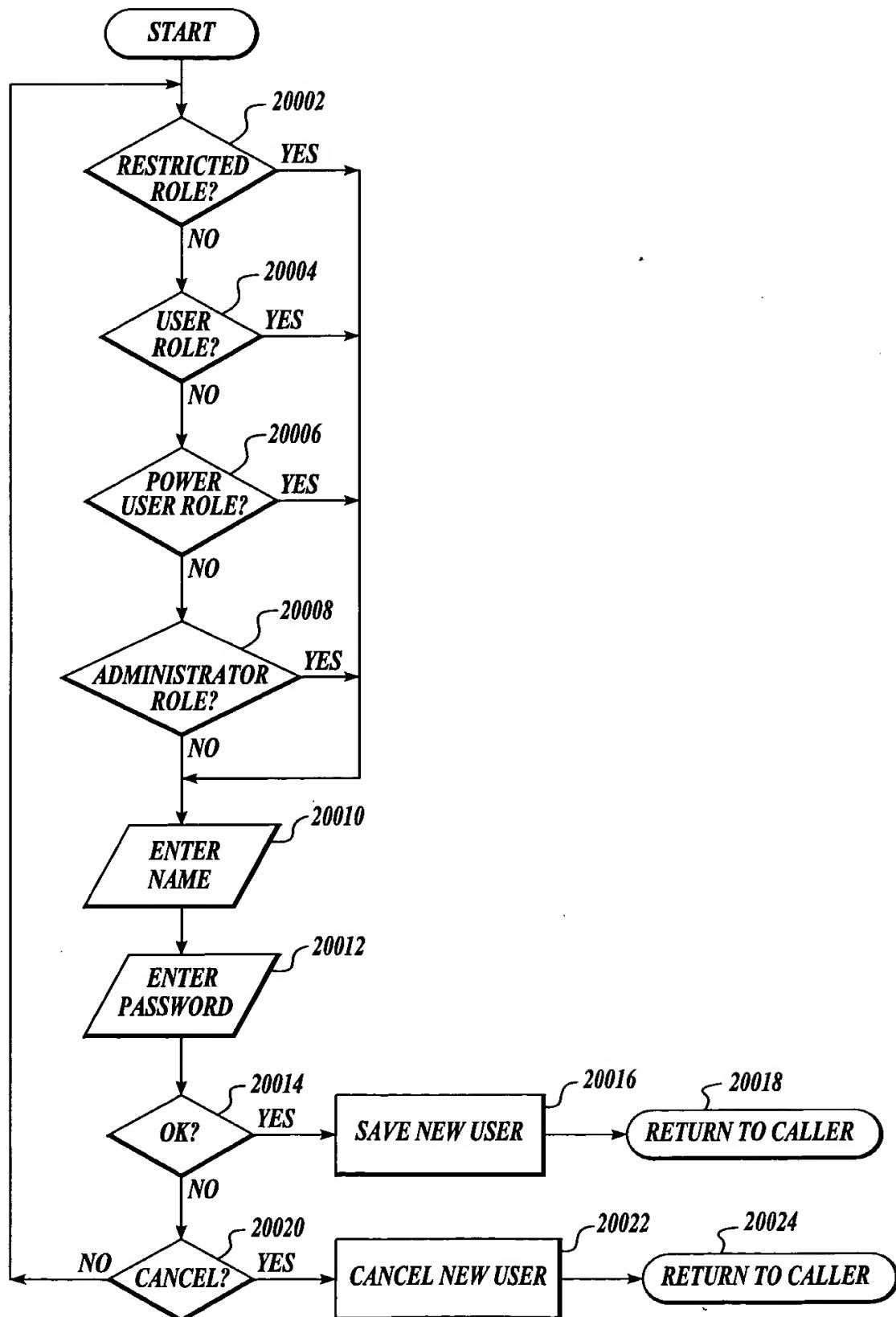


Fig. 200

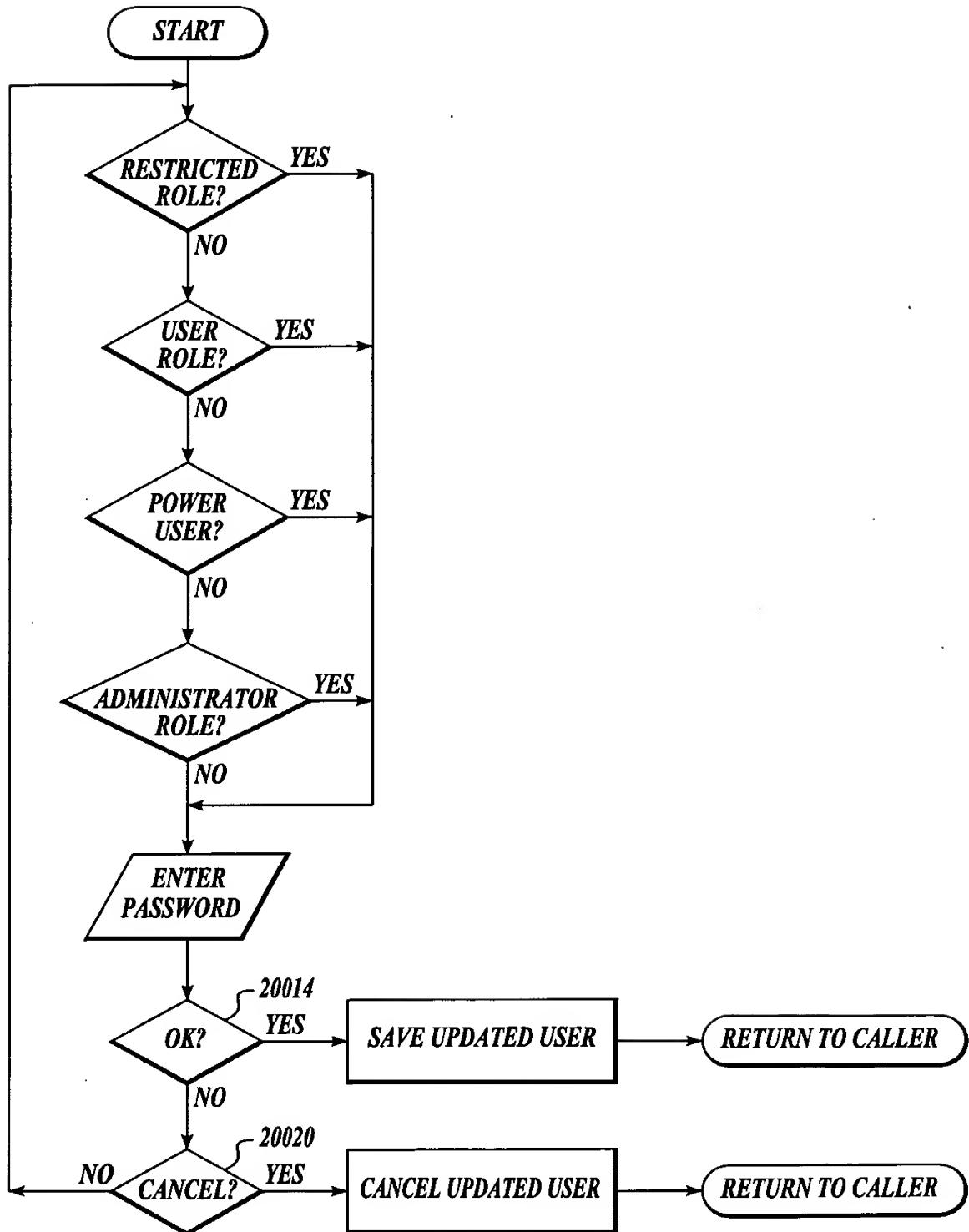


Fig. 201

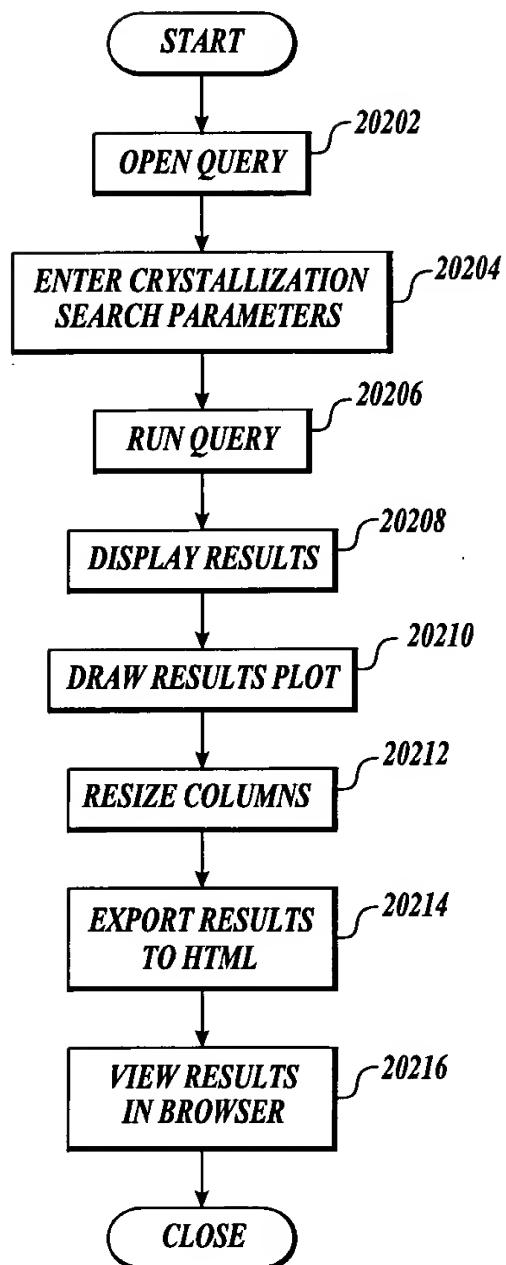


Fig. 202

204/262

Crystal Query																																																																
20300 20301 20304 20306 20308 20310 20312																																																																
<div style="display: flex; justify-content: space-between;"> <div style="flex: 1;"> <input type="button" value="Draw plot..."/> <input type="button" value="Query!"/> </div> <div style="flex: 1;"> <input type="button" value="Fixed Resize"/> <input type="button" value="Exp. to HTML..."/> <input type="button" value="View in Browser..."/> </div> </div>																																																																
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>T...</th> <th>S...</th> <th>S.W.</th> <th>Crystall...</th> <th>Size</th> <th>C...</th> <th>Te...</th> <th>Morphology</th> <th>S</th> <th>(Cplx.) Macro...</th> <th>Compound Buffer</th> </tr> </thead> <tbody> <tr> <td>***</td> <td>3</td> <td>3</td> <td>07</td> <td>Wzrd1 07</td> <td>n/a</td> <td>n/a</td> <td>25.00</td> <td>MicroCrystal</td> <td>jjprotein040300</td> <td>100.000 mM pH 6.00 MES/Na</td> </tr> <tr> <td>*</td> <td>3</td> <td>3</td> <td>13</td> <td>Wzrd1 13</td> <td>tiny</td> <td>1</td> <td>25.00</td> <td>Block</td> <td>jjprotein040300</td> <td>100.000 mM pH 6.50 Na caco</td> </tr> <tr> <td>ε</td> <td>3</td> <td>3</td> <td>16</td> <td>Wzrd1 16</td> <td>Medium</td> <td>n/a</td> <td>25.00</td> <td>Plate</td> <td>jjprotein040300</td> <td>100.000 mM pH 6.20 Na2 H p</td> </tr> <tr> <td>▲</td> <td>3</td> <td>3</td> <td>17</td> <td>Wzrd1 17</td> <td>Small</td> <td>5</td> <td>25.00</td> <td>Pyramid</td> <td>jjprotein040300</td> <td>100.000 mM pH 4.50 acetic a</td> </tr> </tbody> </table>										T...	S...	S.W.	Crystall...	Size	C...	Te...	Morphology	S	(Cplx.) Macro...	Compound Buffer	***	3	3	07	Wzrd1 07	n/a	n/a	25.00	MicroCrystal	jjprotein040300	100.000 mM pH 6.00 MES/Na	*	3	3	13	Wzrd1 13	tiny	1	25.00	Block	jjprotein040300	100.000 mM pH 6.50 Na caco	ε	3	3	16	Wzrd1 16	Medium	n/a	25.00	Plate	jjprotein040300	100.000 mM pH 6.20 Na2 H p	▲	3	3	17	Wzrd1 17	Small	5	25.00	Pyramid	jjprotein040300	100.000 mM pH 4.50 acetic a
T...	S...	S.W.	Crystall...	Size	C...	Te...	Morphology	S	(Cplx.) Macro...	Compound Buffer																																																						
***	3	3	07	Wzrd1 07	n/a	n/a	25.00	MicroCrystal	jjprotein040300	100.000 mM pH 6.00 MES/Na																																																						
*	3	3	13	Wzrd1 13	tiny	1	25.00	Block	jjprotein040300	100.000 mM pH 6.50 Na caco																																																						
ε	3	3	16	Wzrd1 16	Medium	n/a	25.00	Plate	jjprotein040300	100.000 mM pH 6.20 Na2 H p																																																						
▲	3	3	17	Wzrd1 17	Small	5	25.00	Pyramid	jjprotein040300	100.000 mM pH 4.50 acetic a																																																						
<p>Types</p> <p><input type="checkbox"/> Spherulite <input type="checkbox"/> PhaseSep. <input type="checkbox"/> Skin <input type="checkbox"/> Precipitate <input checked="" type="checkbox"/> MicroCrystal</p>																																																																
<p>Shapes</p> <p><input checked="" type="checkbox"/> Needle <input checked="" type="checkbox"/> Plate <input checked="" type="checkbox"/> Pyramid <input checked="" type="checkbox"/> Block <input checked="" type="checkbox"/> Hexagon <input checked="" type="checkbox"/> Leaf <input checked="" type="checkbox"/> Urchin <input checked="" type="checkbox"/> Rod</p>																																																																
<p>Sizes</p> <p><input checked="" type="checkbox"/> Tiny <input checked="" type="checkbox"/> Small <input checked="" type="checkbox"/> Medium <input checked="" type="checkbox"/> Big</p>																																																																
<p>Misc.</p> <p><input checked="" type="checkbox"/> Twin <input type="checkbox"/> Clear <input type="checkbox"/> Image</p>																																																																
<p>User def.</p> <p><input type="checkbox"/> Usr def 1 <input type="checkbox"/> Usr def 2 <input type="checkbox"/> Usr def 3</p>																																																																
<p>Help</p> <p>Observation sessions which are open and not in recording mode are queried. Click on column heading for sorting. Double-click on a row to see drop composition details.</p>																																																																
<input type="button" value="Close"/> <input type="button" value="20314"/> <input type="button" value="20316"/> <input type="button" value="Help..."/>																																																																

Fig. 203

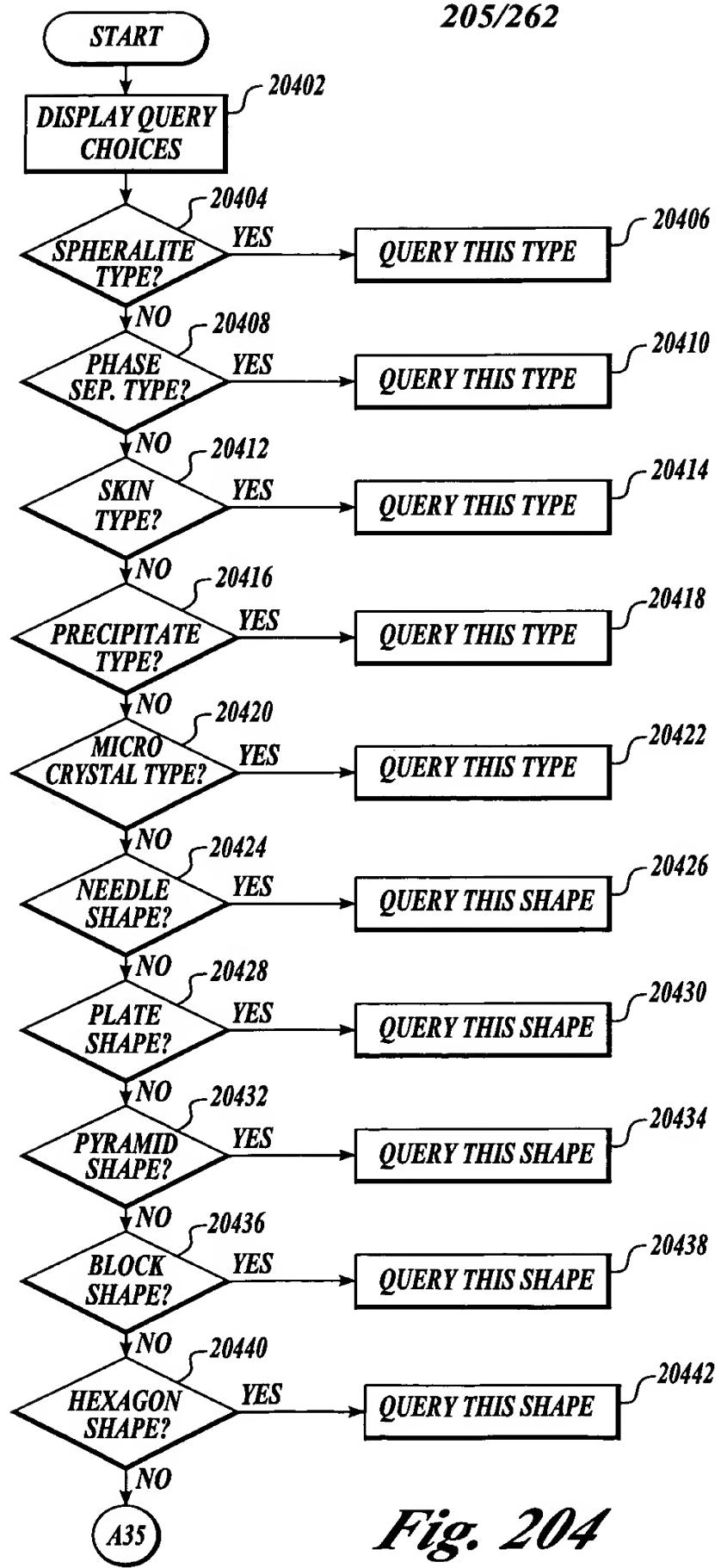


Fig. 204

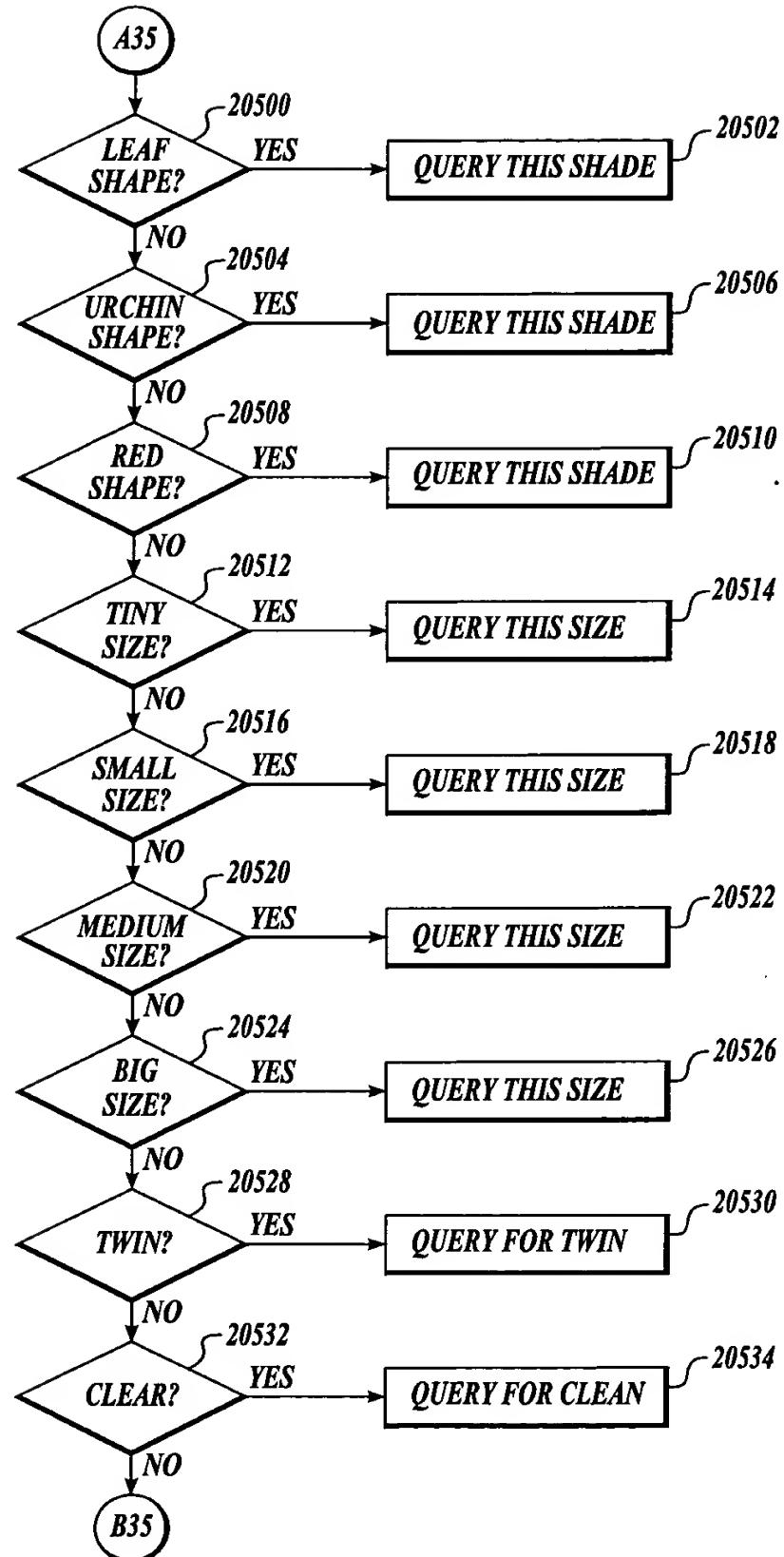


Fig. 205

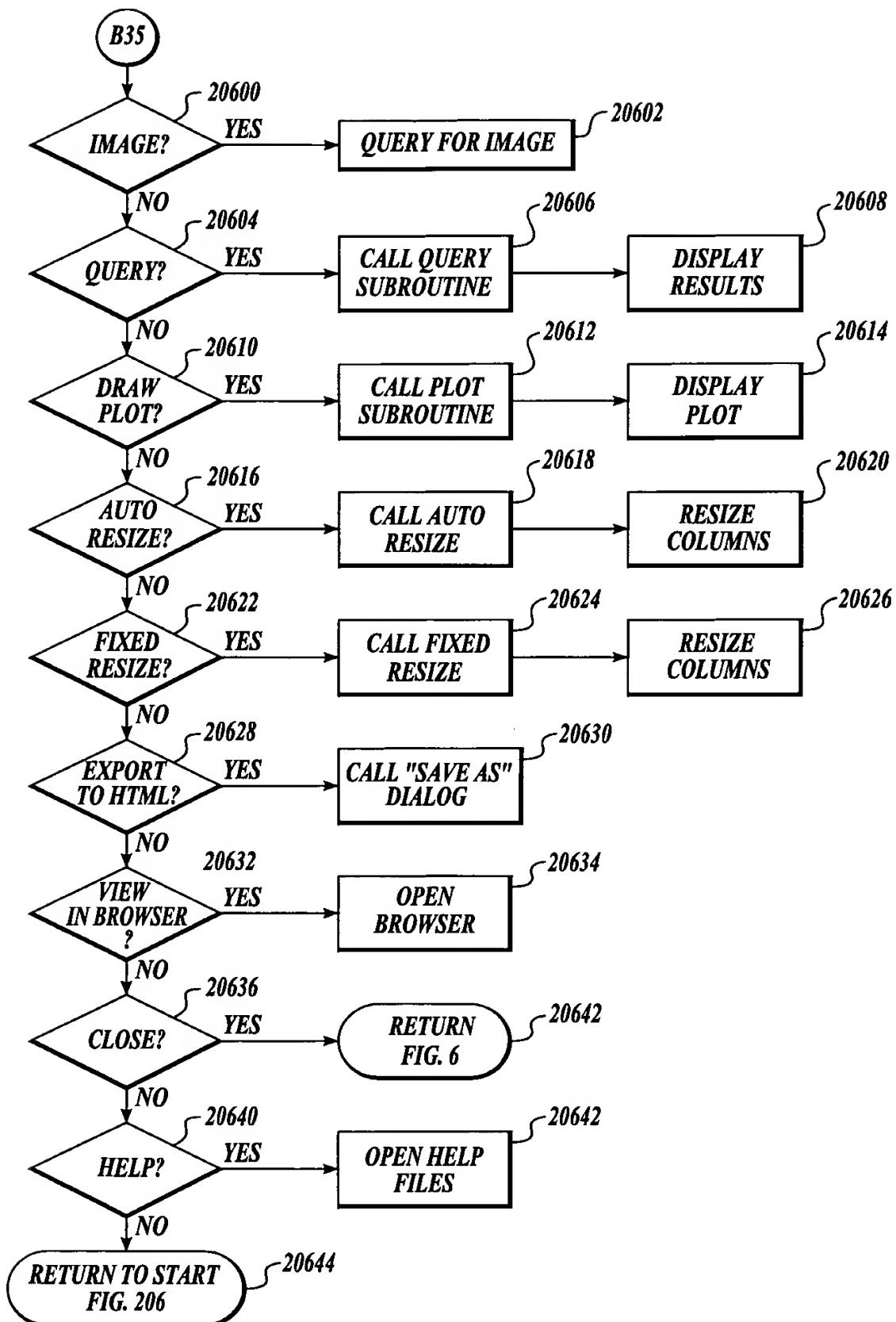


Fig. 206

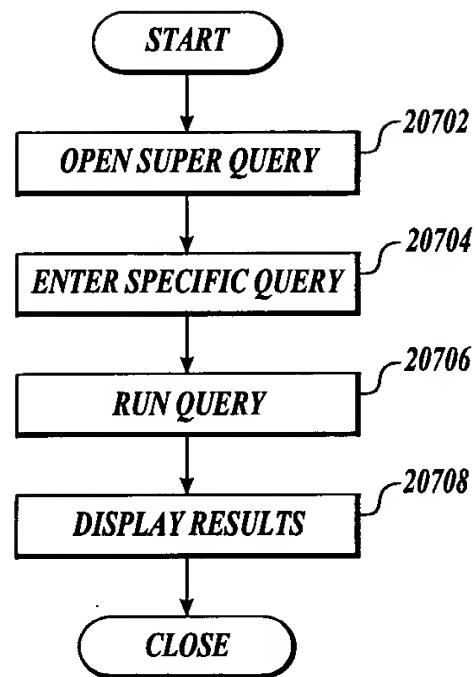


Fig. 207

209/262

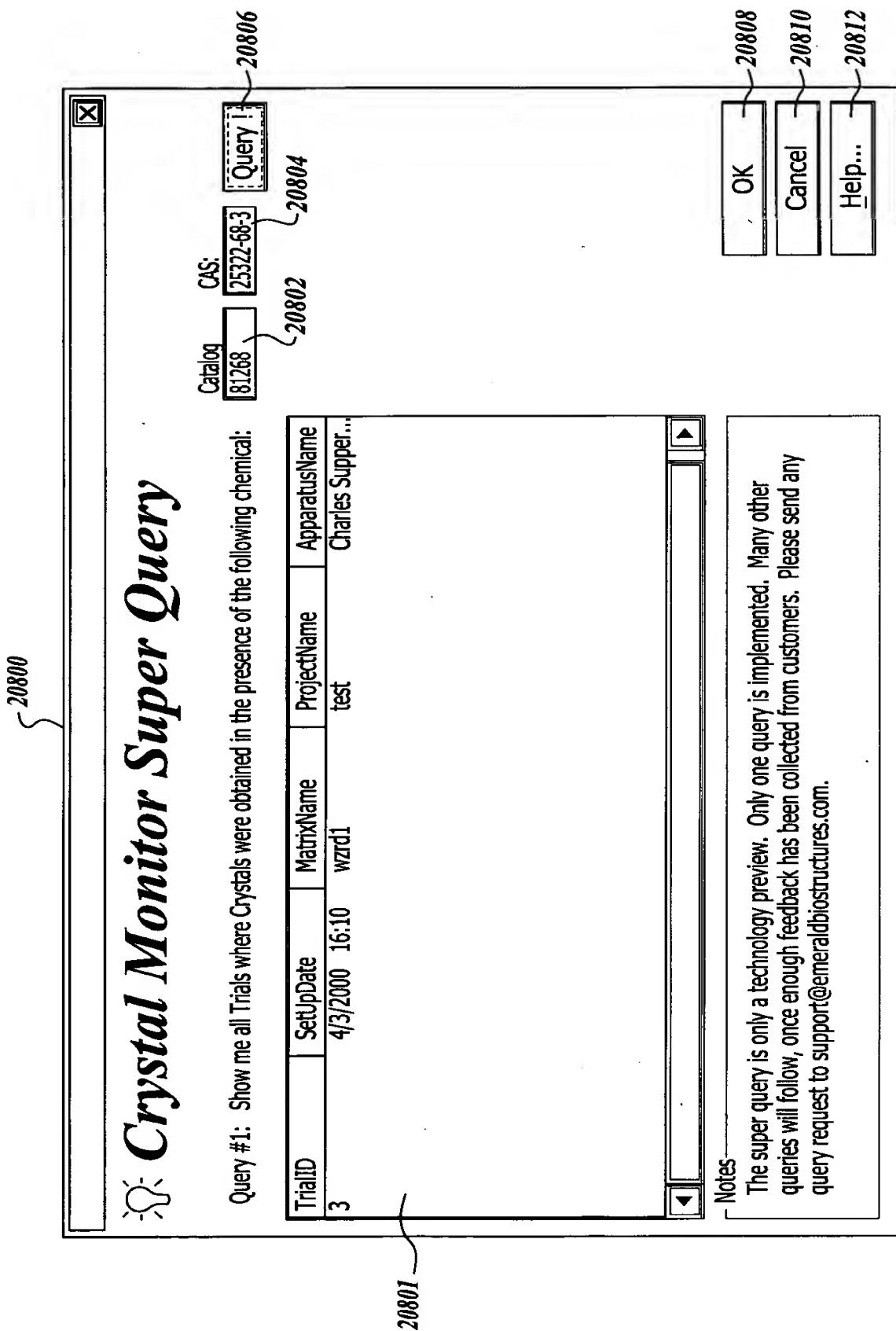


Fig. 208

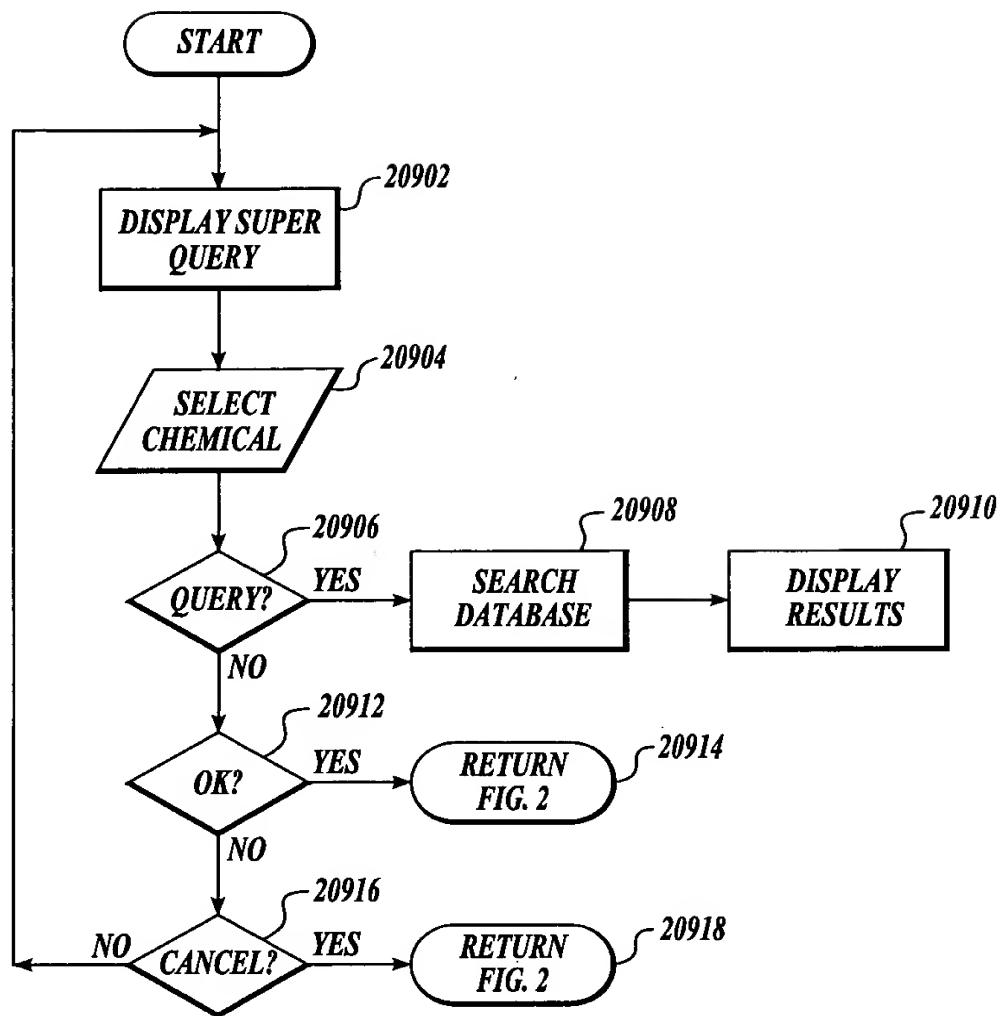


Fig. 209

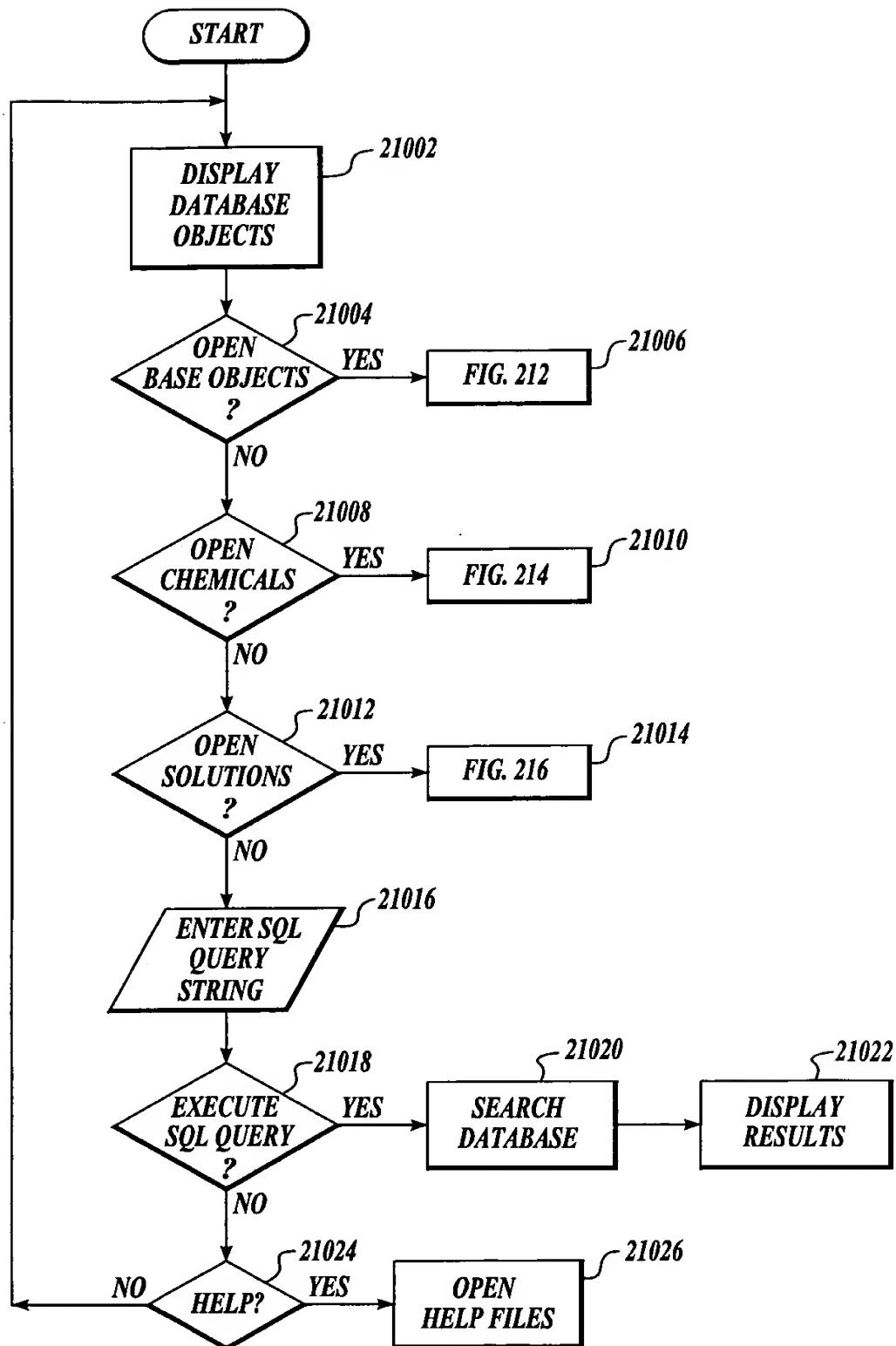


Fig. 210

212/262

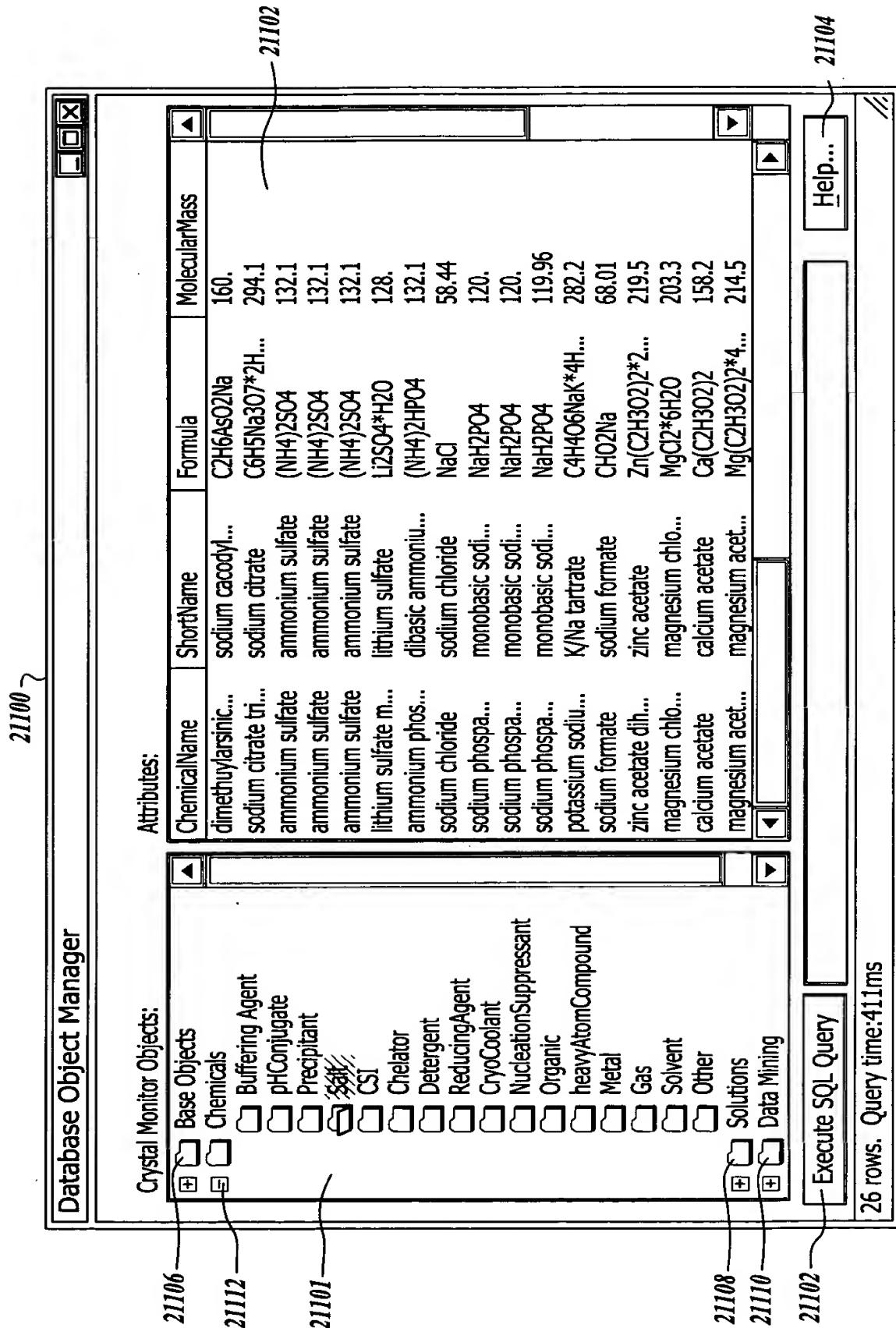


Fig. 211

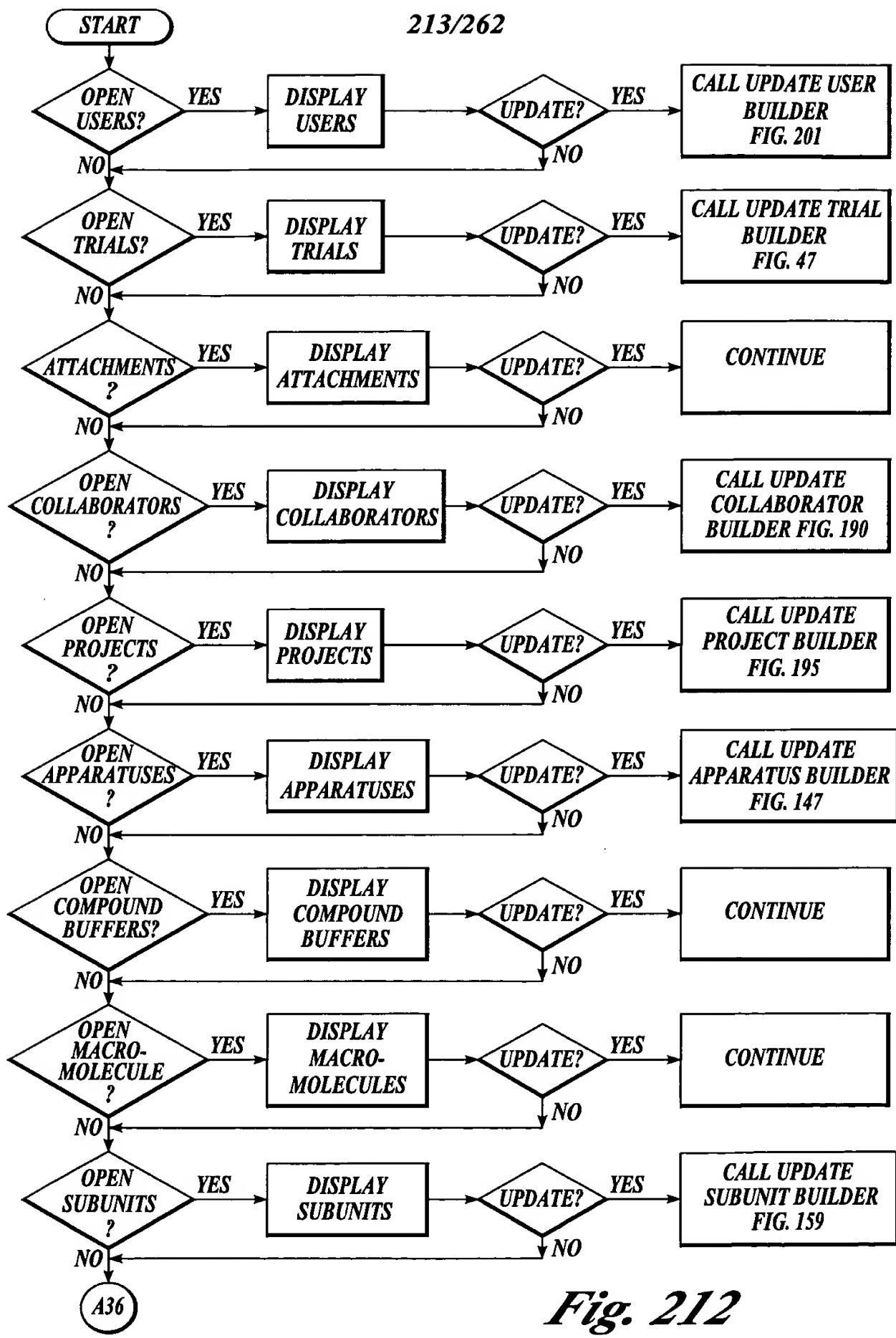


Fig. 212

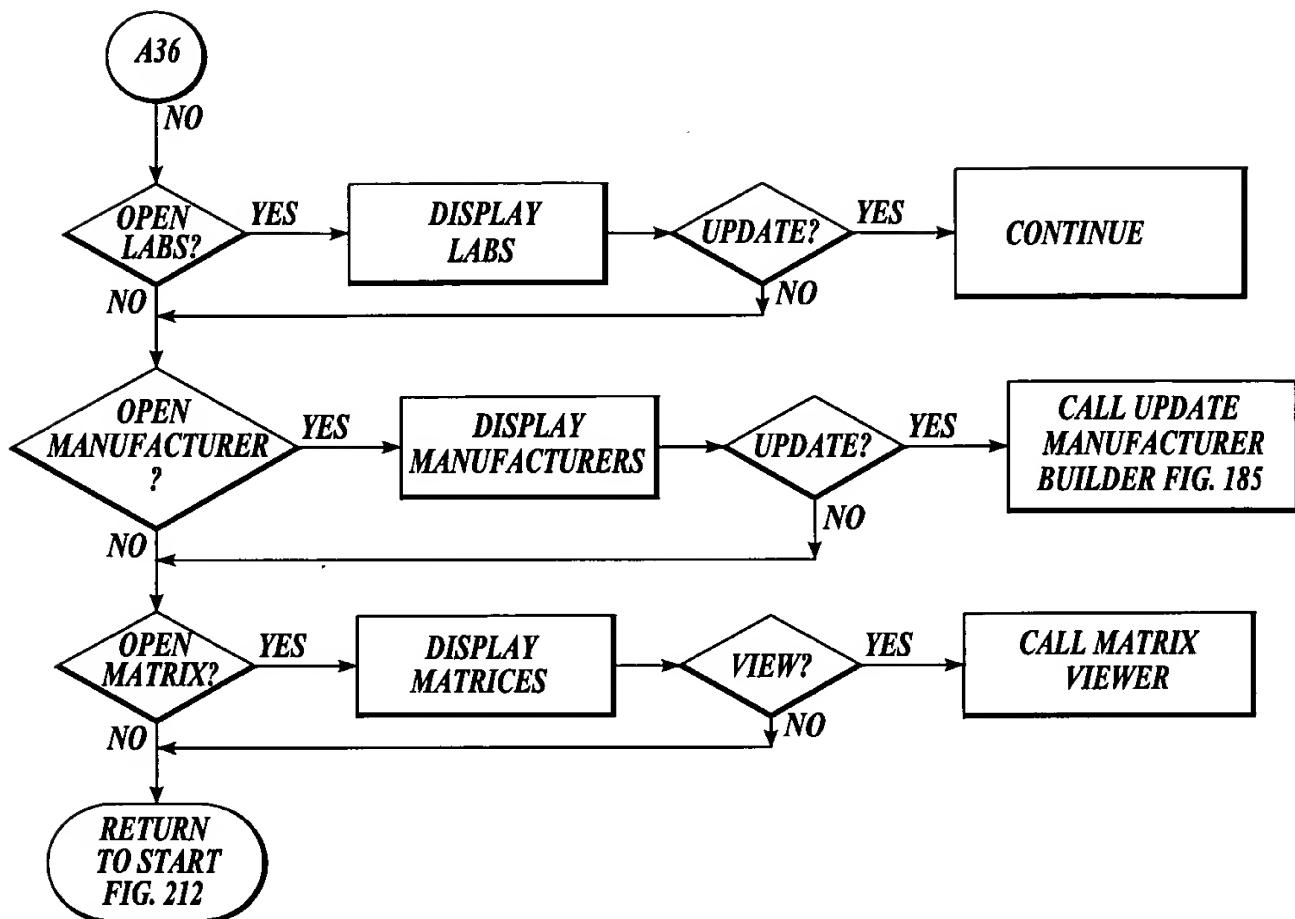


Fig. 213

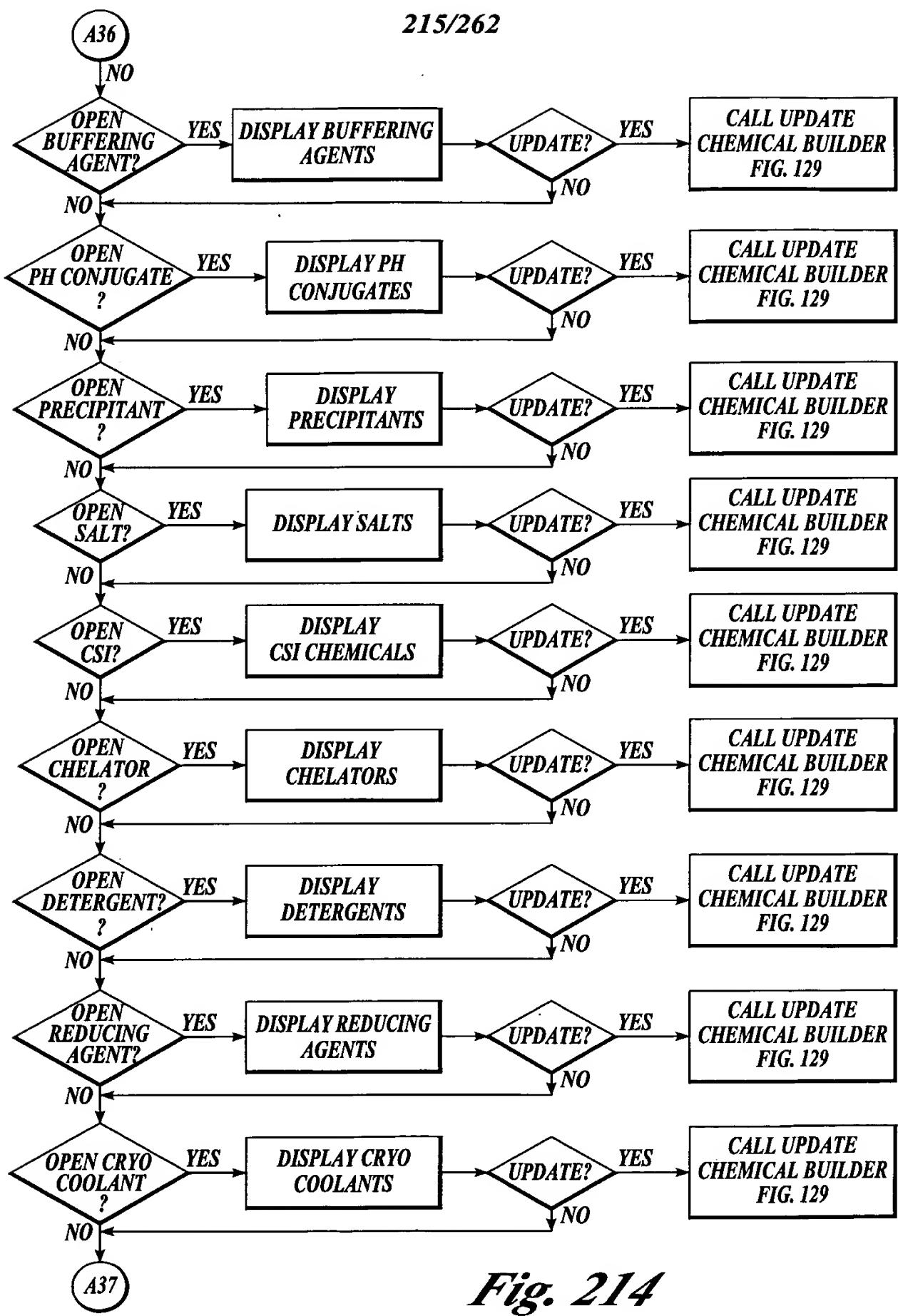


Fig. 214

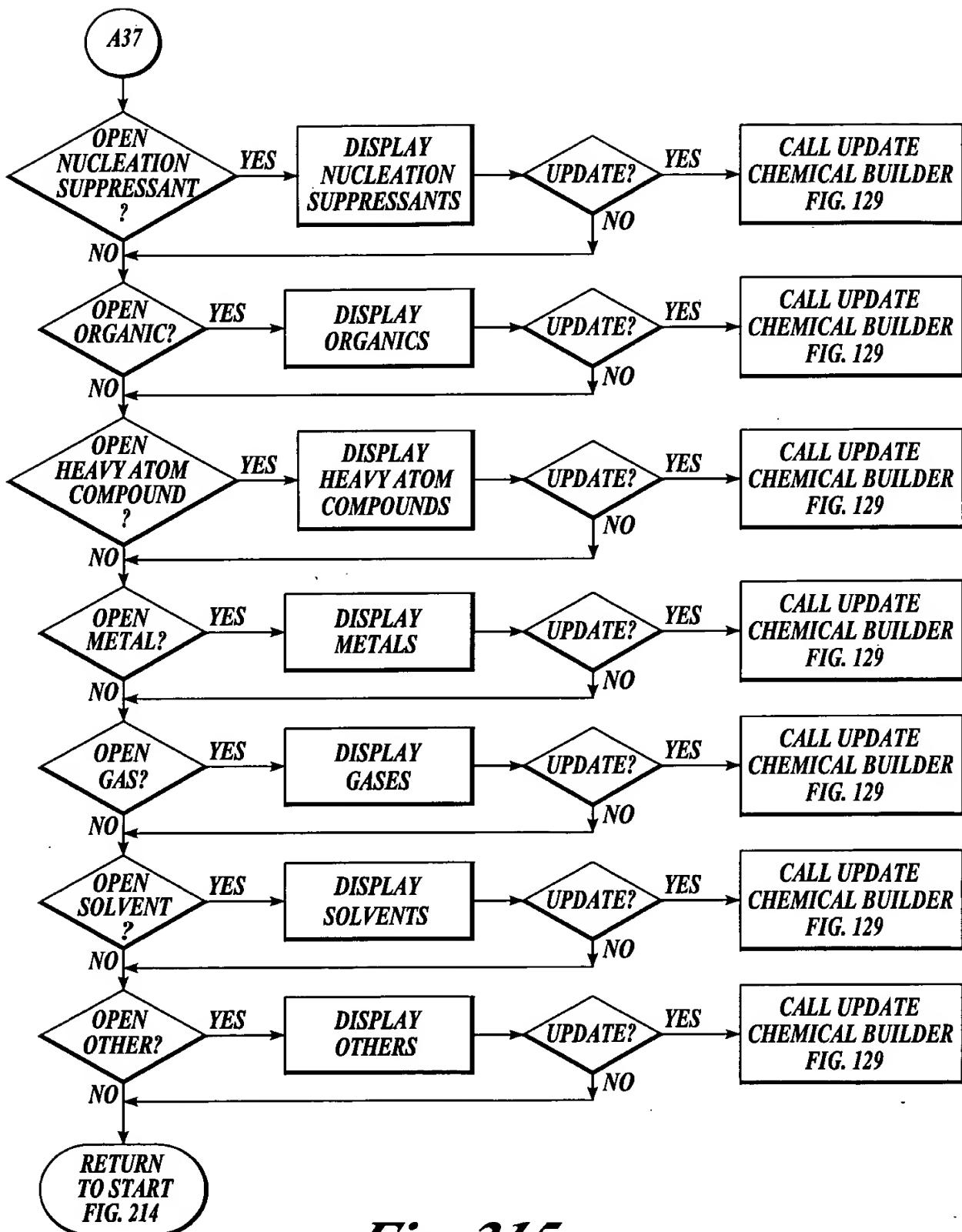
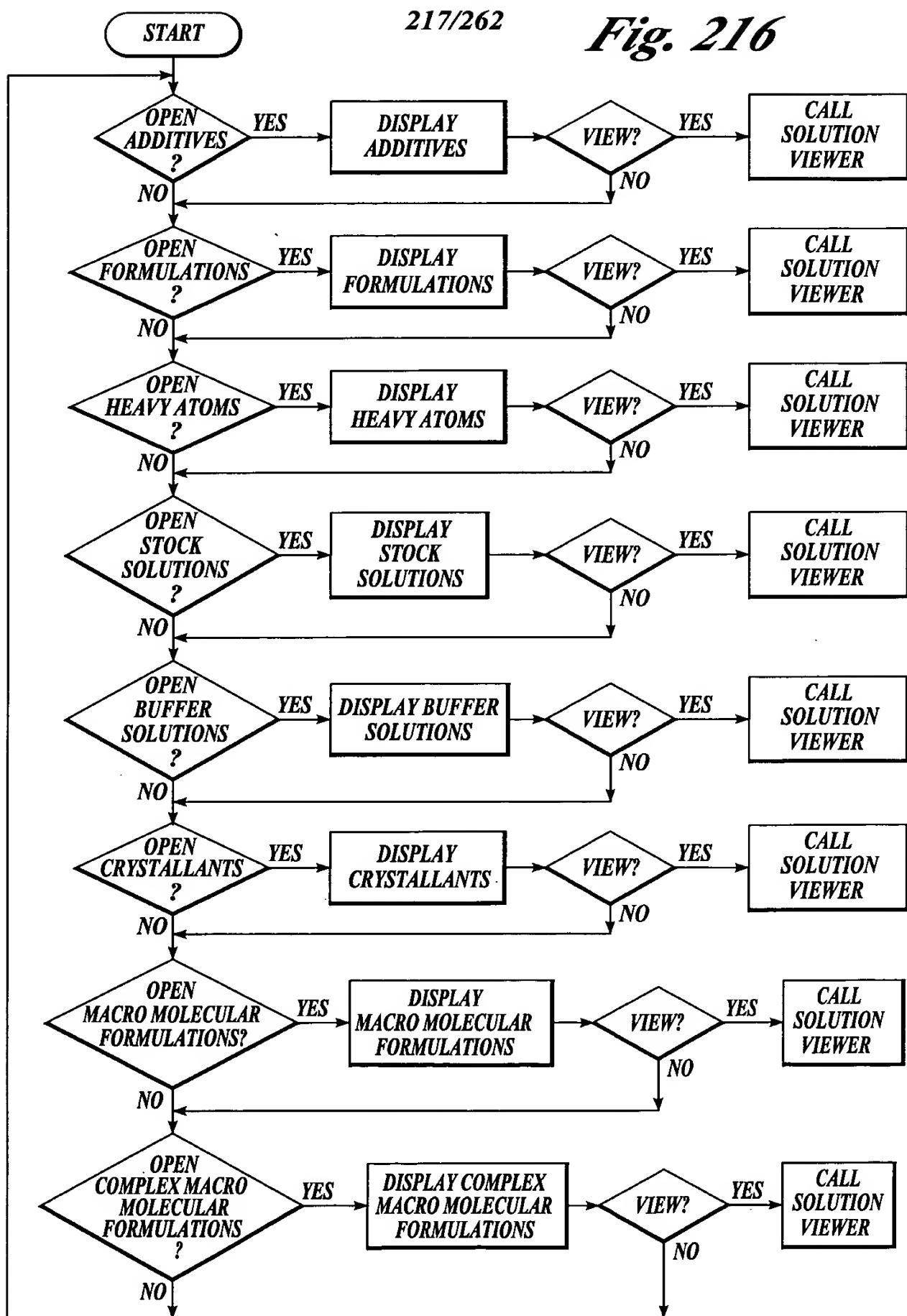


Fig. 215

Fig. 216



Database Object Manager

Crystal Monitor Objects:

- Base Objects
- Chemicals
- Buffering Agent
- pHConjugate
- Precipitant
- Salt
- CSJ
- Chelator
- Detergent
- ReducingAgent
- CryoCoolant
- NucleationSuppressant
- Organic
- heavyAtomCompound
- Metal
- Gas
- Solvent
- Other
- Solutions

Attributes:

Catalog	CAS	ChemicalName	ShortName	F
20,781-0	151-50-8	potassium cyanide	KCN	K
78-1970	10025-99-7	potassium tetraphenylborate	K2PbC4	K
F1502	102113-47-4	D-fructose 6-phosphate	K2 D-fructose 6...	K
H7273	21799-87-1	hydroquinonesulfonate	KHQSA	C
HR2-539	6381-59-5	potassium/sodium tetraborate	K/Na tetraborate	K
HR2-553	7778-77-0	potassium dihydrogen phosphate	KH2 phosphate	K
HR2-635	7758-11-4	di-potassium hydrogen phosphate	K2 H phosphate	K
P0165	6381-59-5	potassium sodium tartrate	K/Na tartrate	C
P0662	7778-77-0	potassium phosphate	KH2 phosphate	K
P2569	7789-23-3	potassium fluoride	KF	K
P2713	333-20-0	potassium thiocyanate	KSCN	K
P3786	7758-11-4	potassium phosphate	KH phosphate	K
P5708	127-08-2	potassium acetate	KAc	K
P9333	7447-40-7	potassium chloride	KCl	K
P9458	7779-80-5	potassium sulfate	K2 sulfate	K
T6897	921-53-9	potassium tartrate	K2 tartrate	K

Execute SQL Query

Help...

16 rows. Query time: 361 ms

21700

Fig. 217

Database Object Manager

Crystal Monitor Objects:

- Base Objects
- Chemicals
- Buffering Agent
- pHConjugate
- Precipitant
- Salt
- CS1
- Chelator
- Detergent
- ReducingAgent
- CryoCoolant
- NucleationSuppressant
- Organic
- heavyAtomCompound
- Metal
- Gas
- Solvent
- Other
- Solutions

Attributes:

Catalog	CAS	ChemicalName	ShortName
A7330	631-61-8	ammonium acet...	NH4 ac
HR2-565	631-61-8	ammonium acet...	NH4 ac
A6141	1066-33-7	ammonium bicar...	NH4 bicarbonate
A5666	12125-02-9	ammonium chlori...	NH4 chloride
HR2-555	7722-76-1	ammonium dihyd...	NH4 H2 phosph...
F2004	540-69-2	ammonium form...	NH3 formate
A7455	6484-52-2	ammonium nitrate	NH4 nitrate
A1167	7783-28-0	ammonium phosp...	(NH4)2 H phosp...
A2939	7783-20-2	ammonium sulfate	(NH4)2 sulfate
A938-500	7783-20-2	ammonium sulfate	(NH4)2 sulfate
HR2-541	7783-20-2	ammonium sulfate	(NH4)2 sulfate
JT0792-5	7783-20-2	ammonium sulfate	(NH4)2 sulfate
88394	10736-27-9	barium chloride ...	Ba chloride
C4705	62-54-4	calcium acetate	CaAc2
HR2-567	62-54-4	calcium acetate	CaAc2
C5080	10035-04-8	calcium chloride...	CaCl2

21800

77 rows. Query time: 81 ms

Execute SQL Query

Help...

Fig. 218

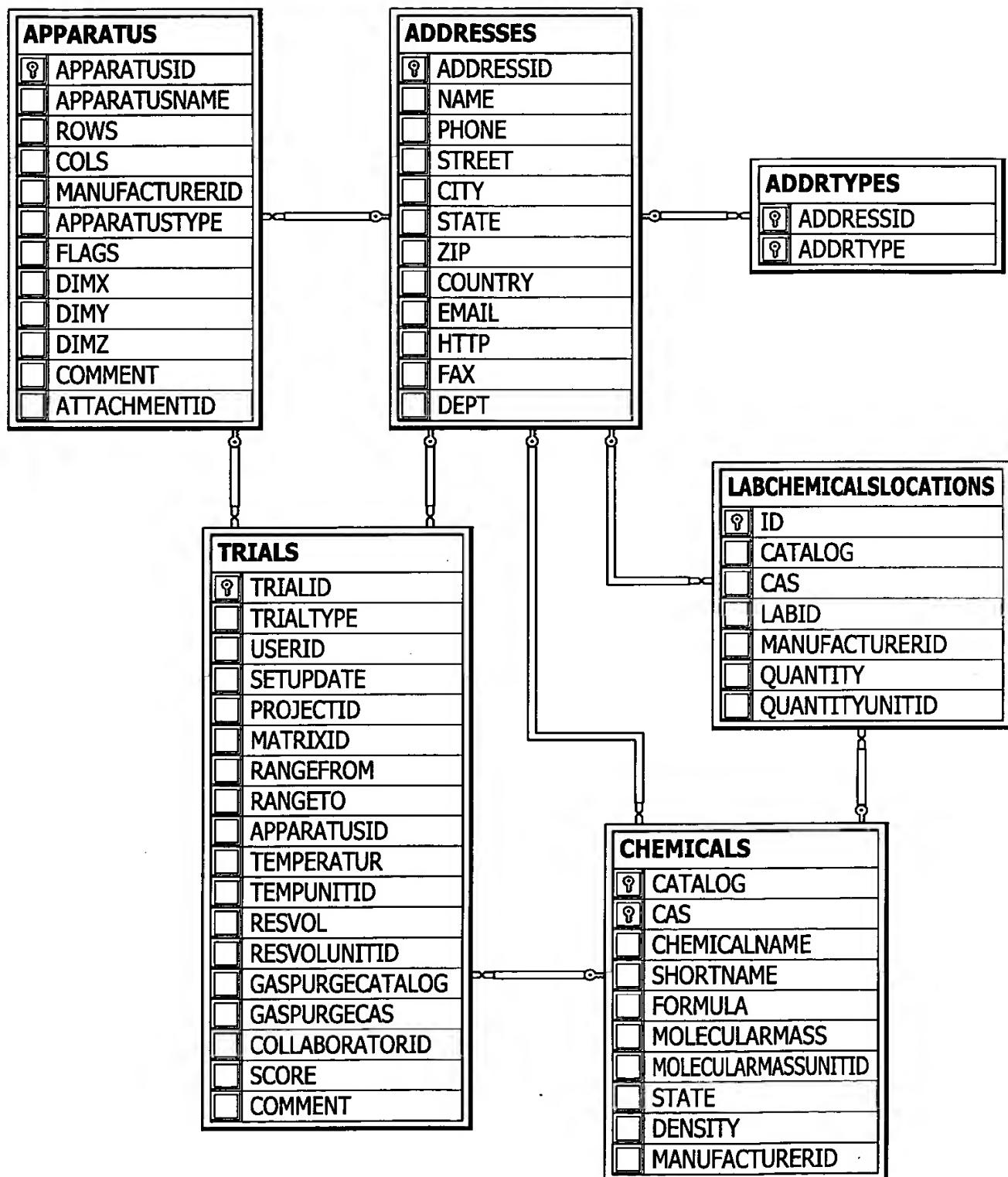


Fig. 219

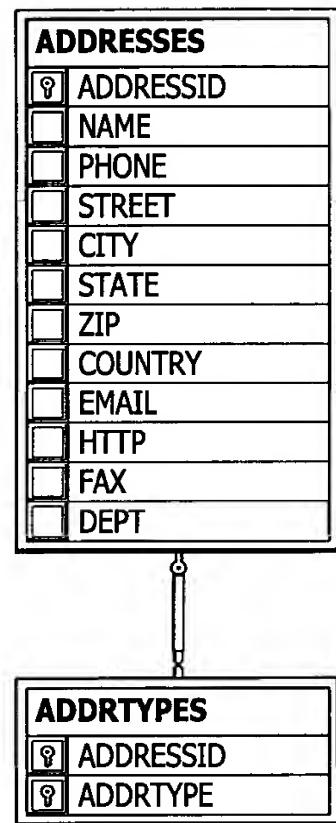


Fig. 220

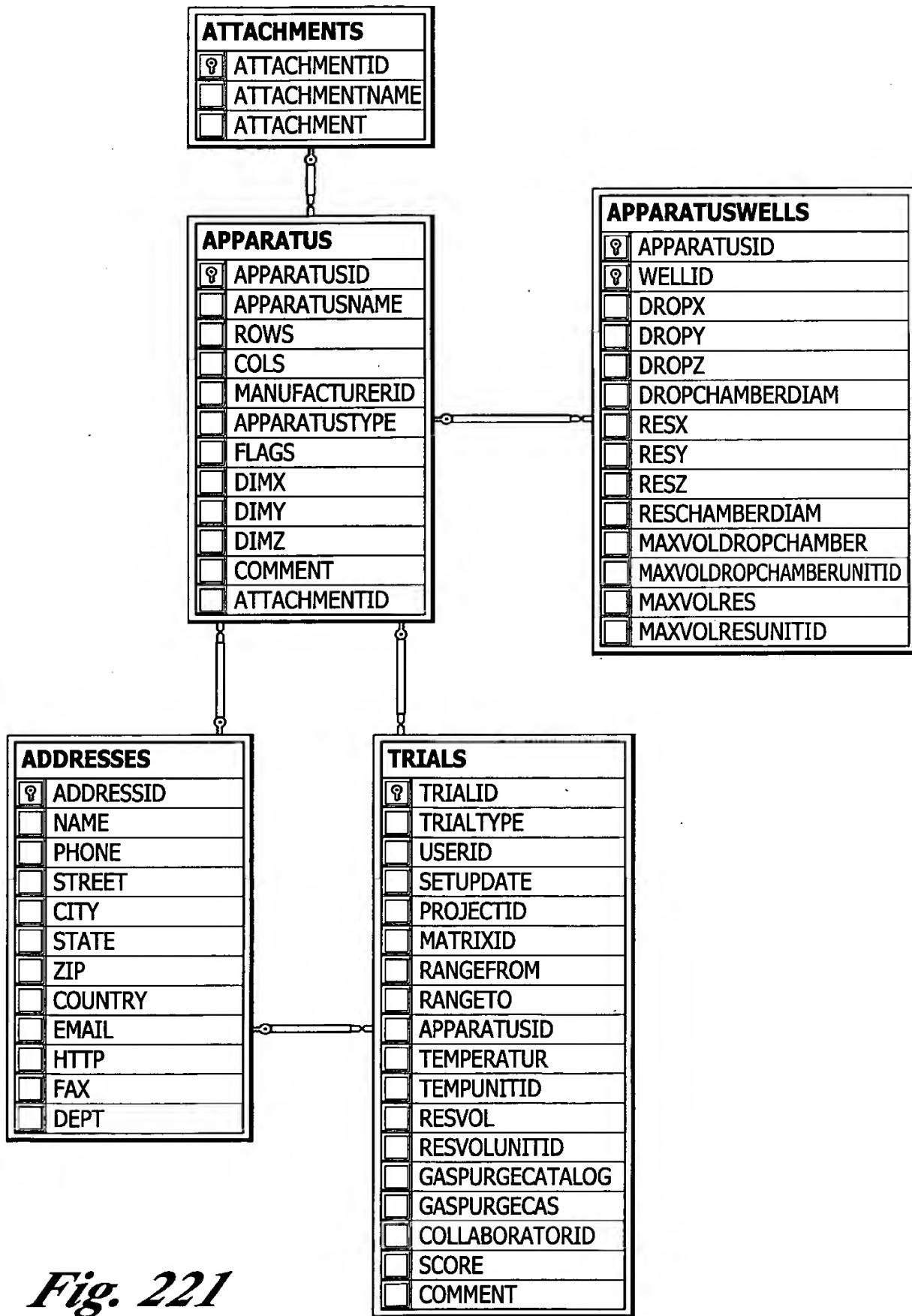


Fig. 221

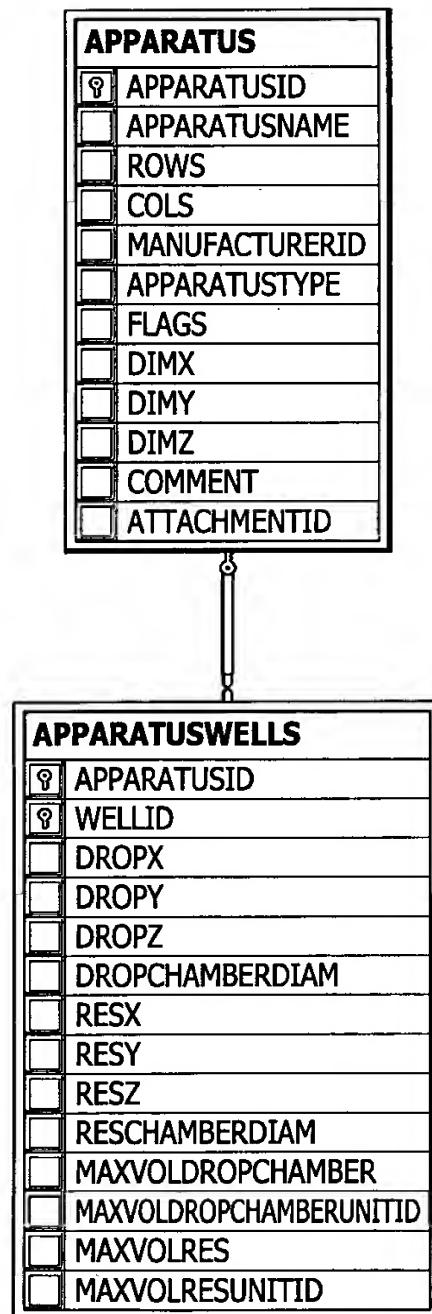


Fig. 222

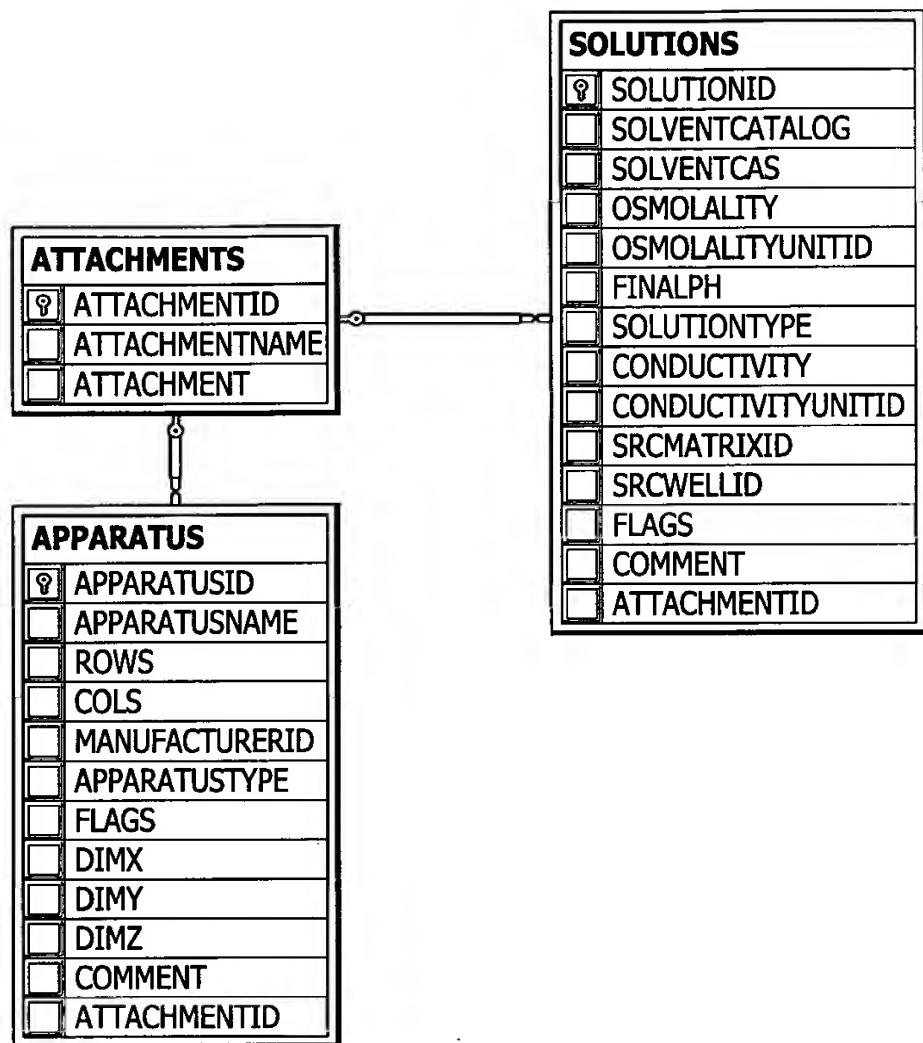


Fig. 223

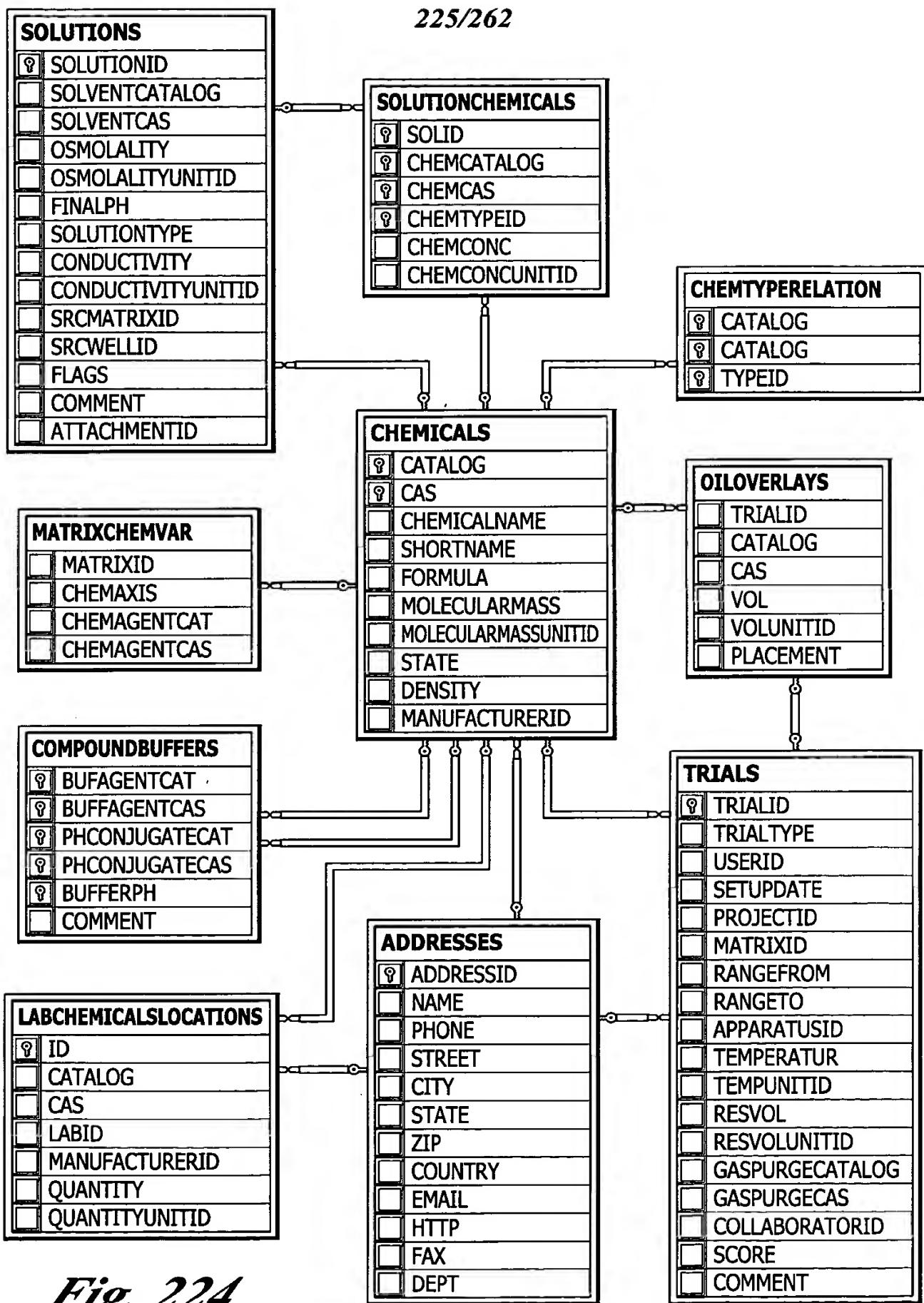


Fig. 224

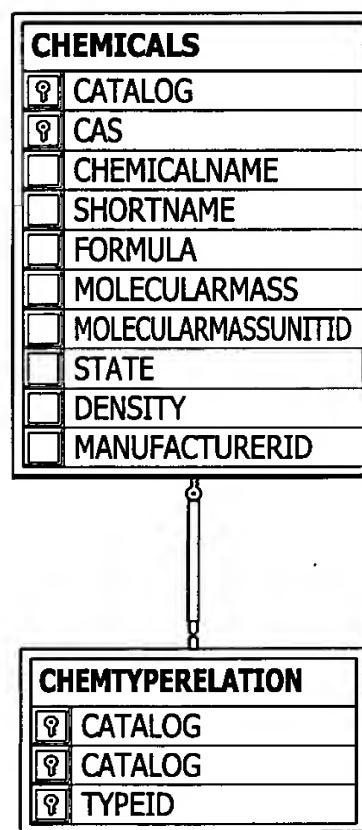


Fig. 225

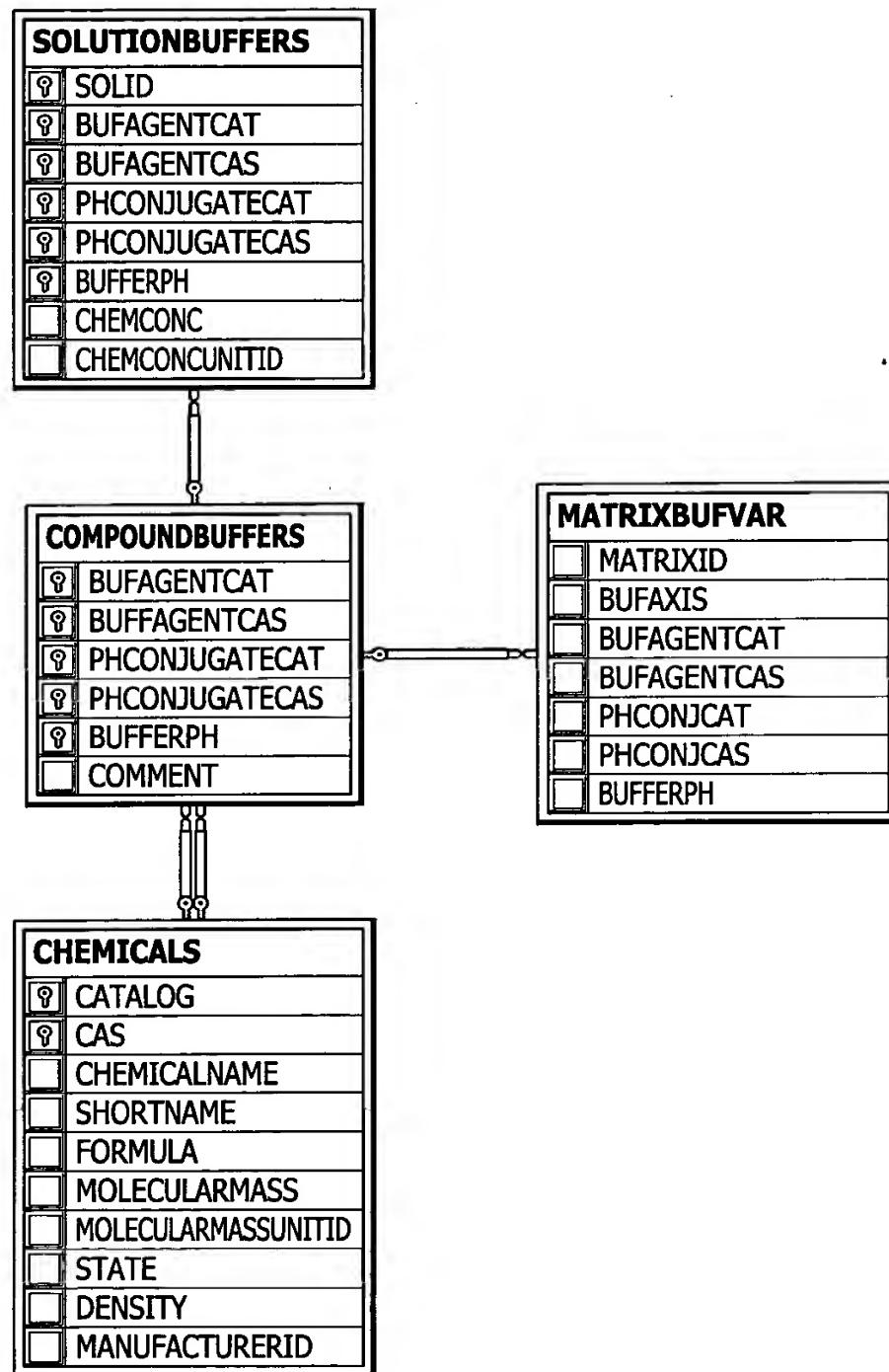


Fig. 226

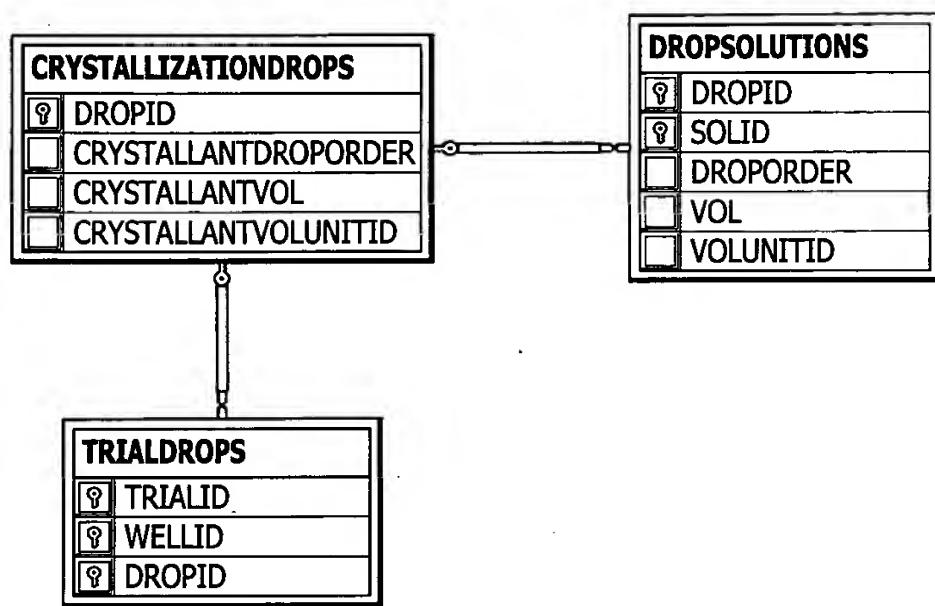


Fig. 227

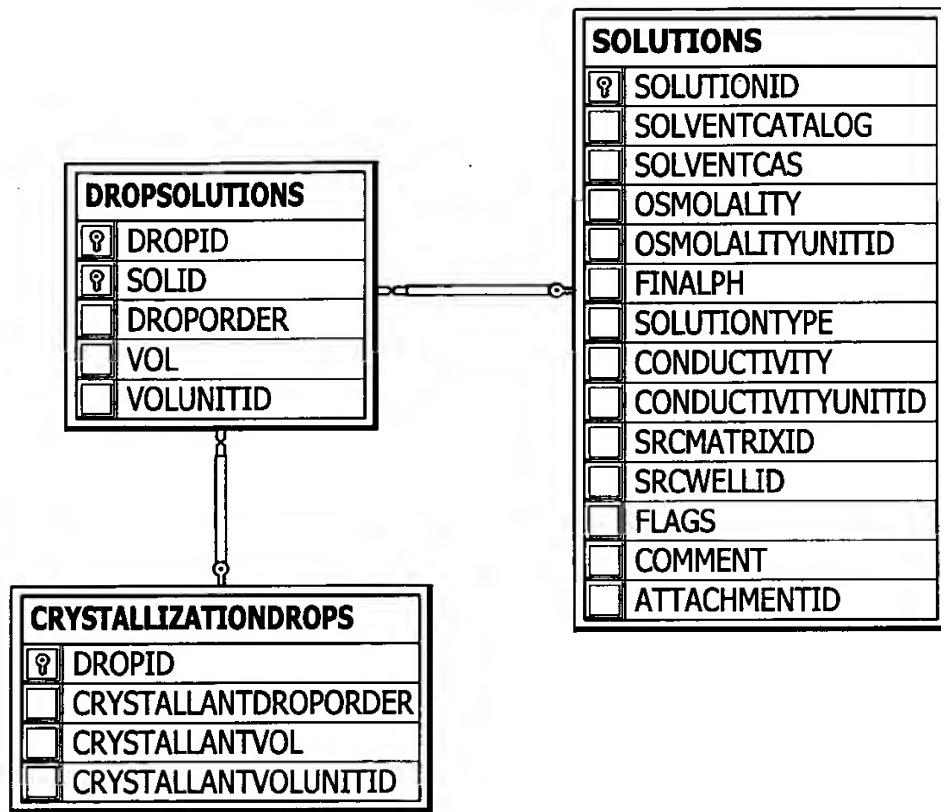


Fig. 228

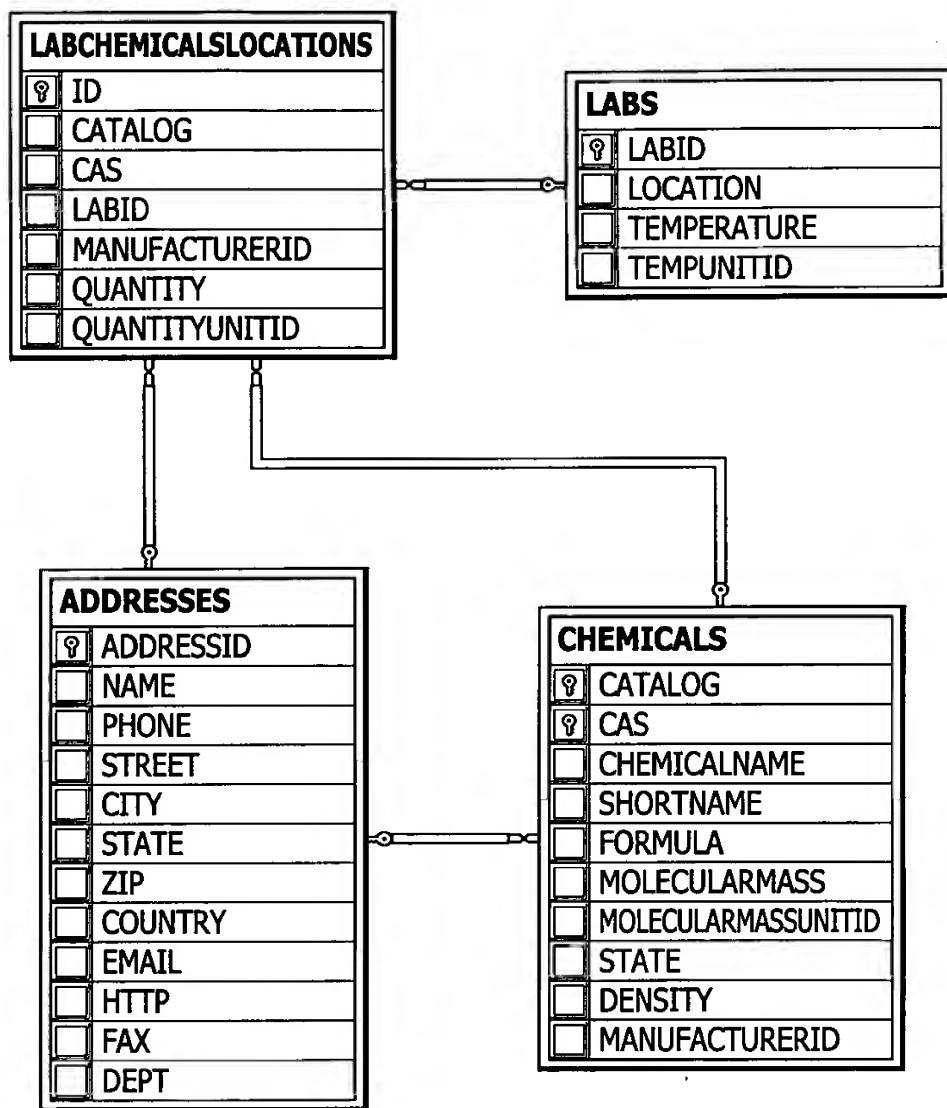


Fig. 229

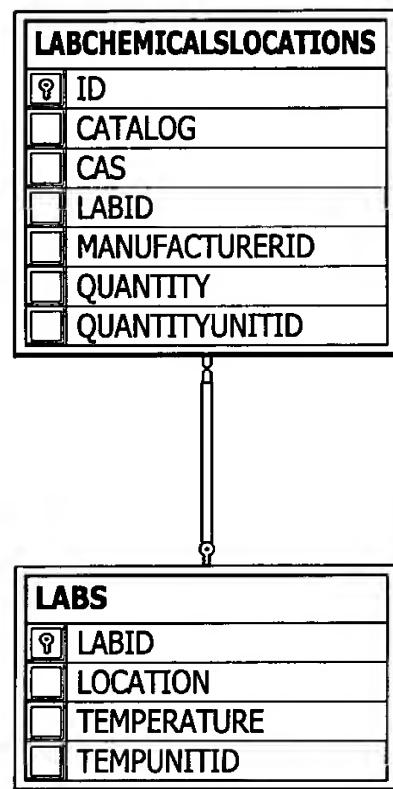


Fig. 230

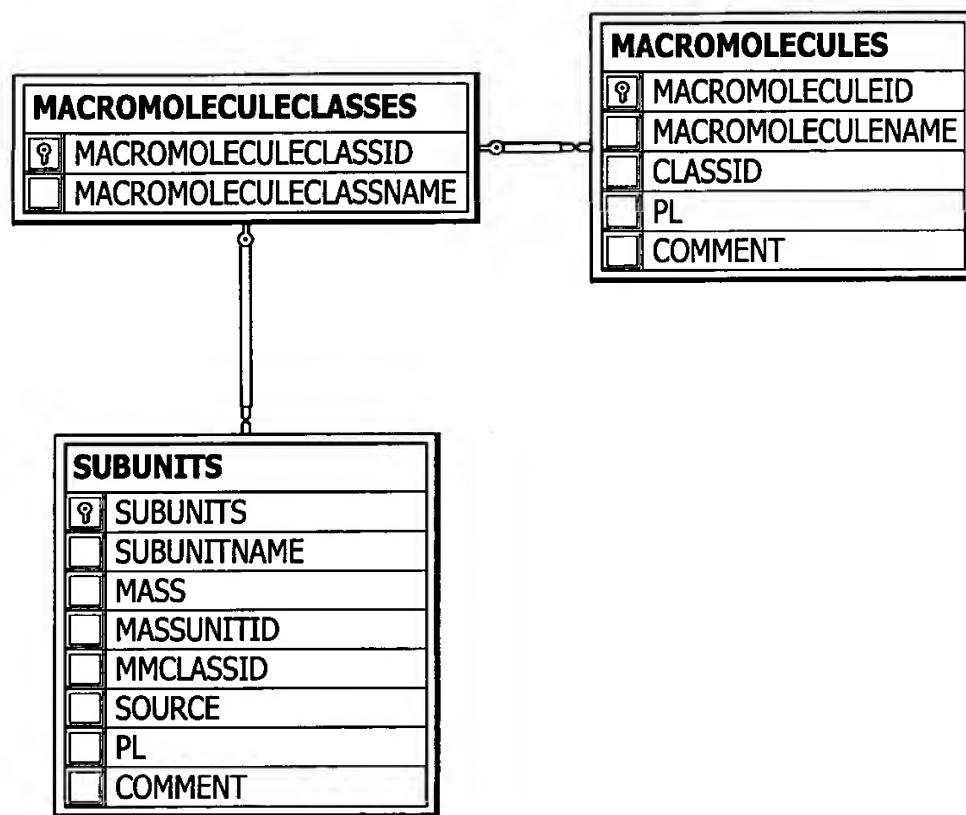


Fig. 231

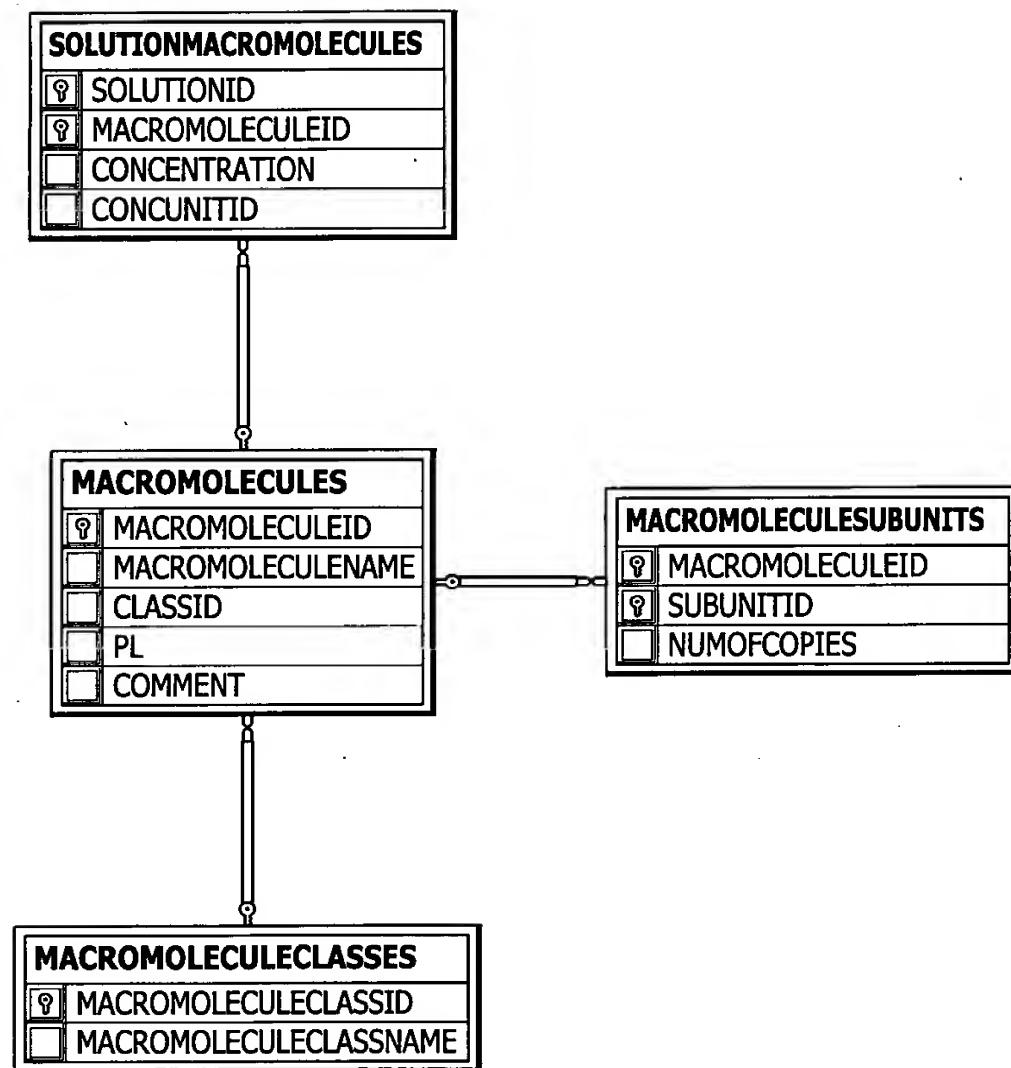


Fig. 232

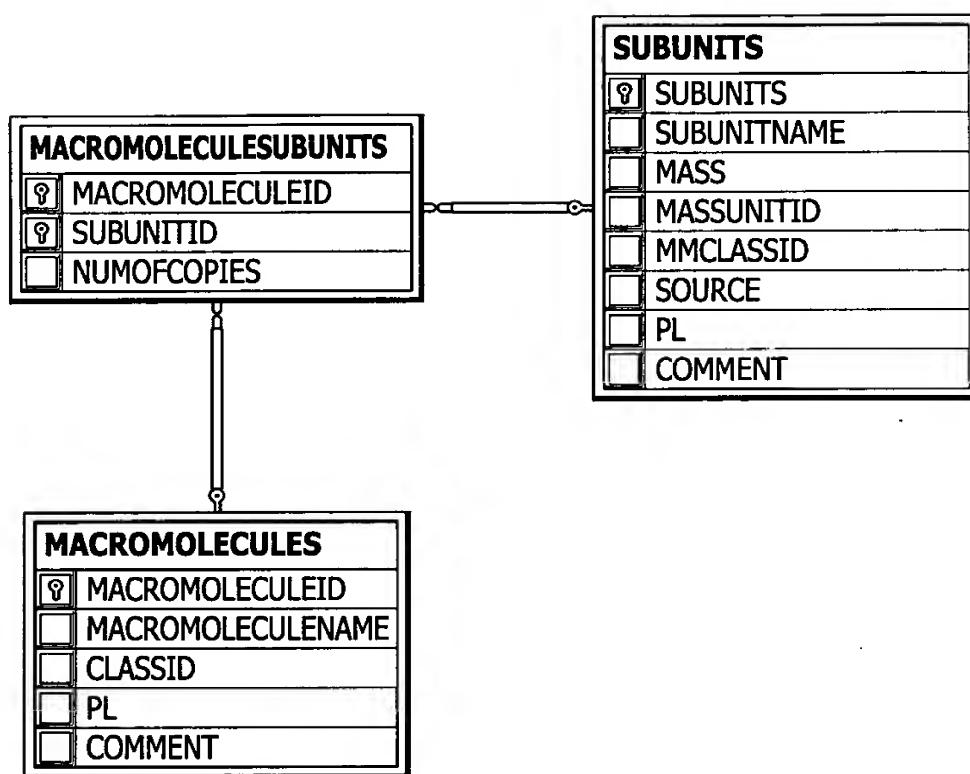


Fig. 233

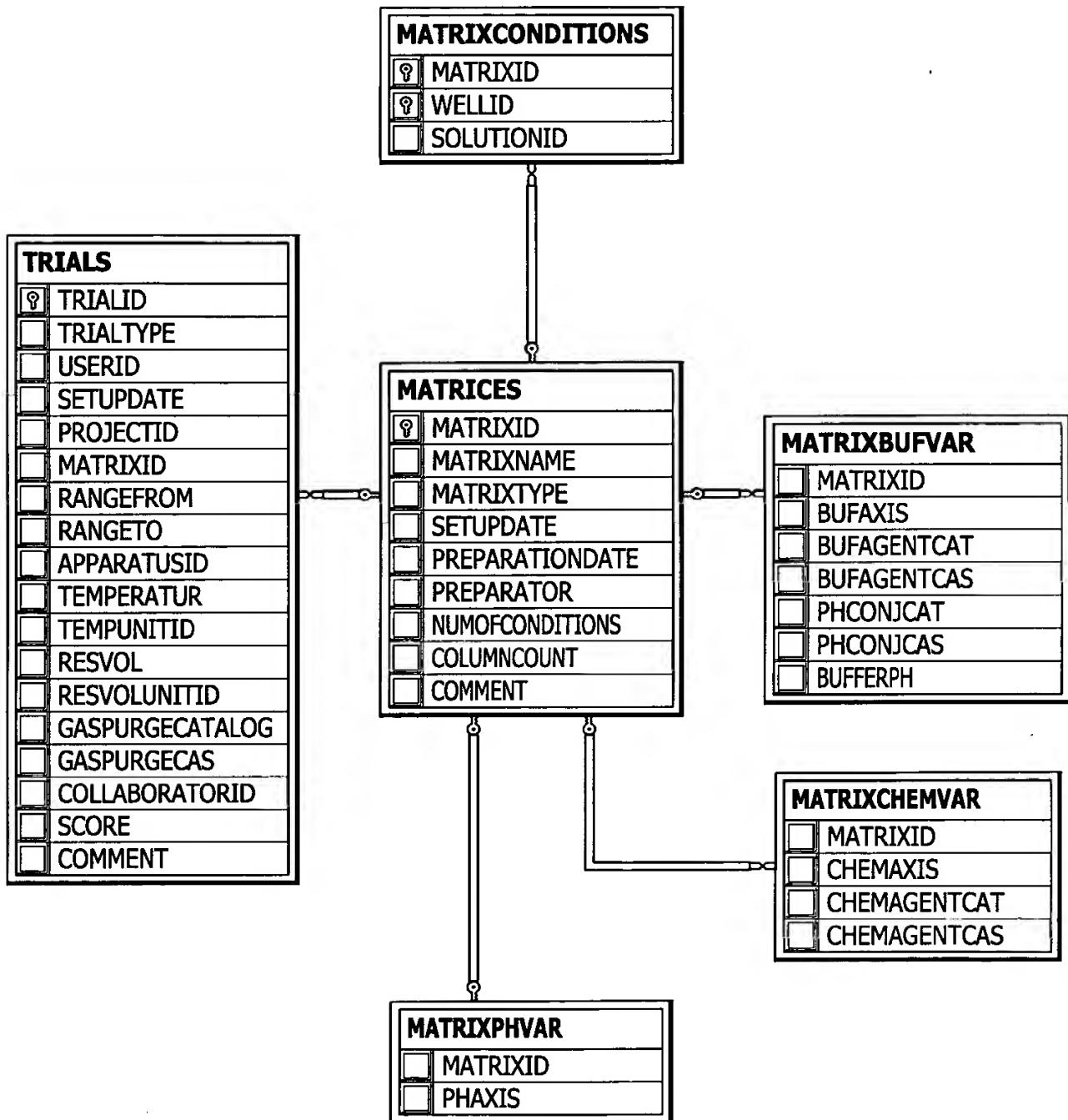


Fig. 234

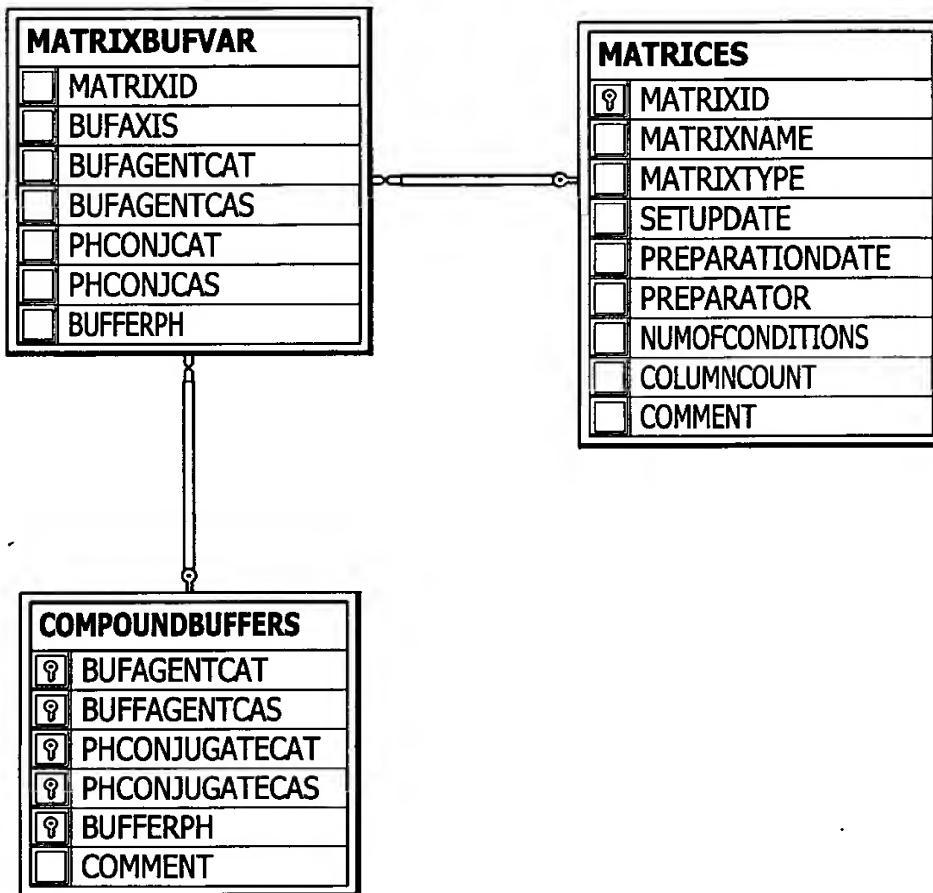


Fig. 235

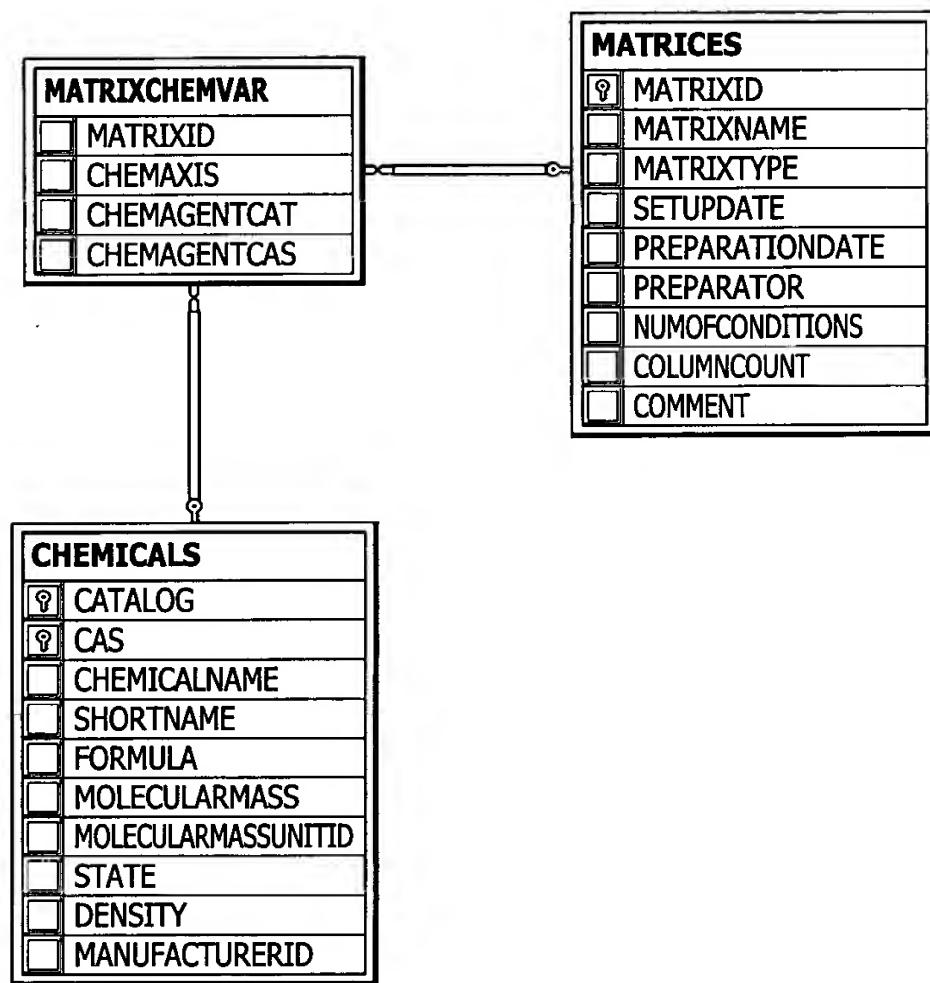


Fig. 236

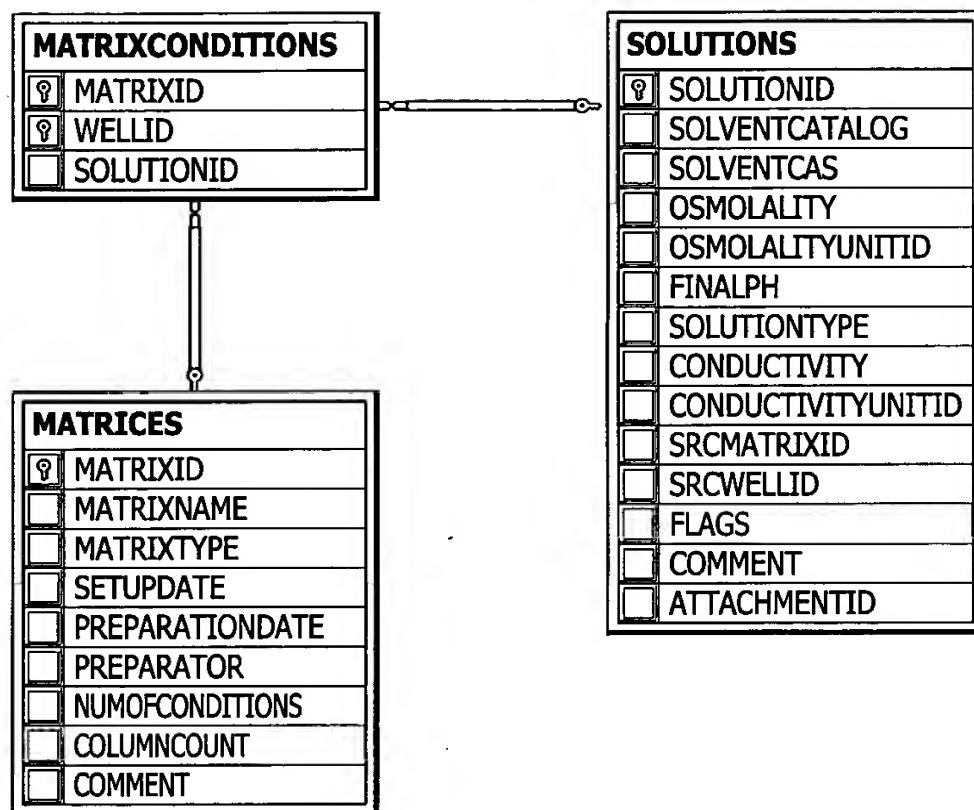


Fig. 237

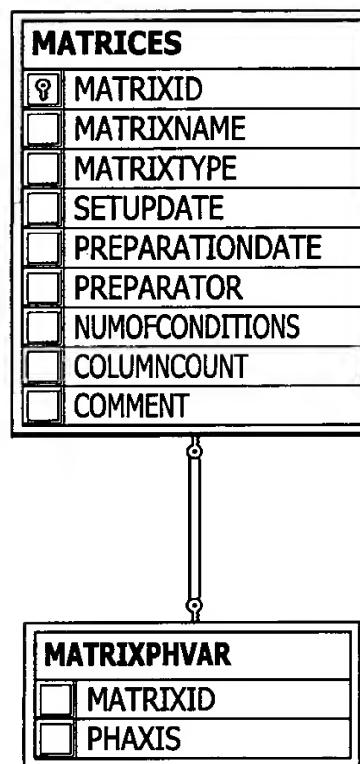


Fig. 238

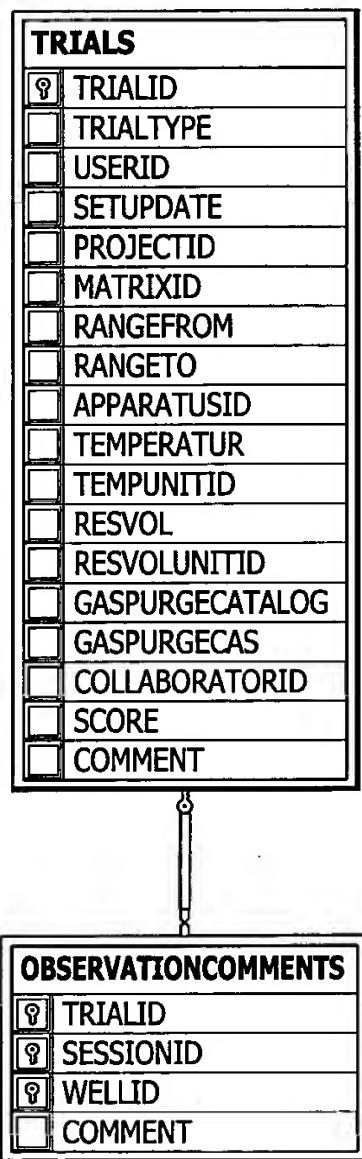


Fig. 239

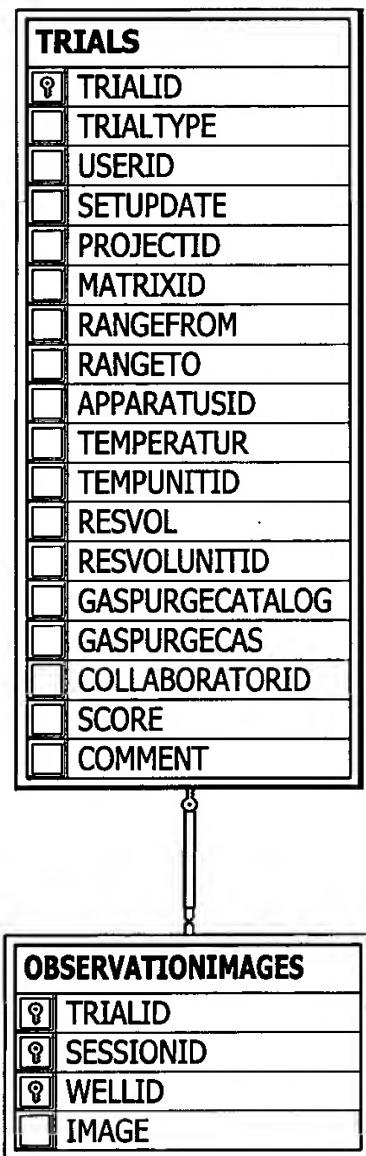


Fig. 240

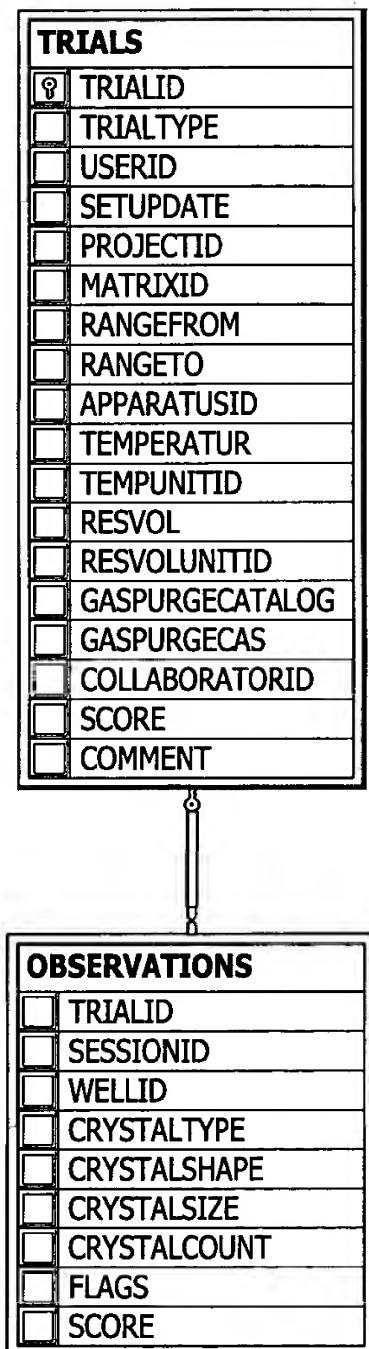


Fig. 241

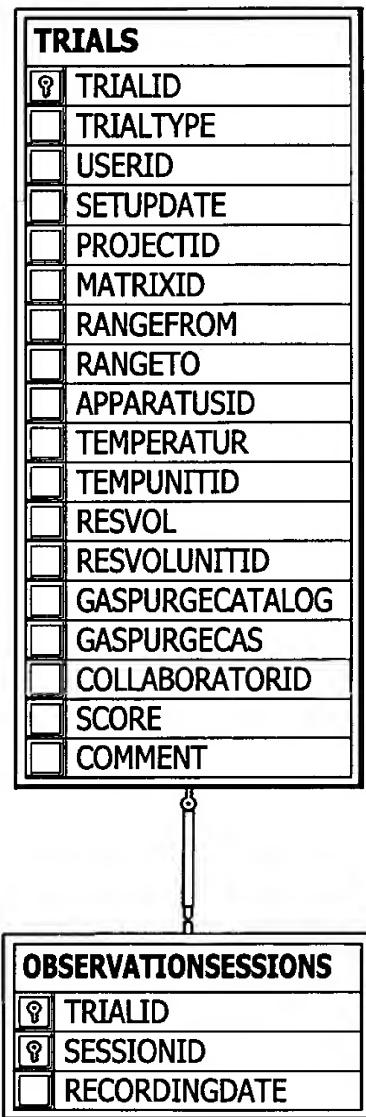


Fig. 242

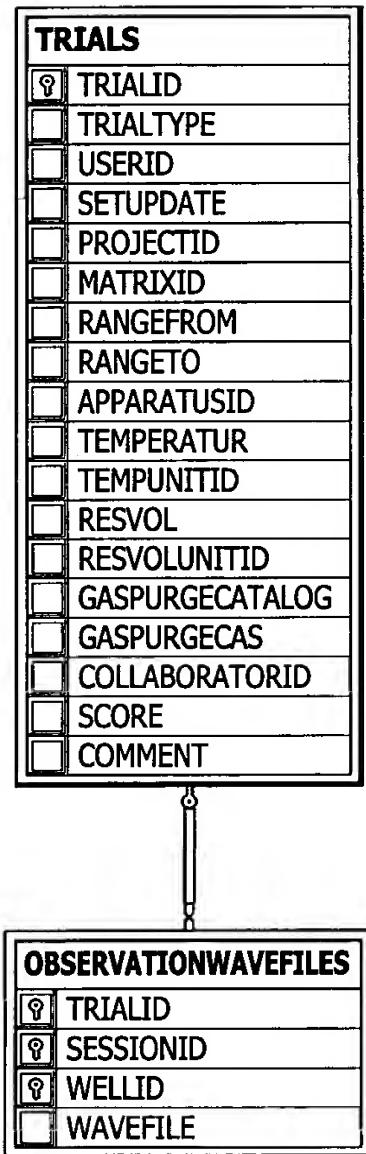


Fig. 243

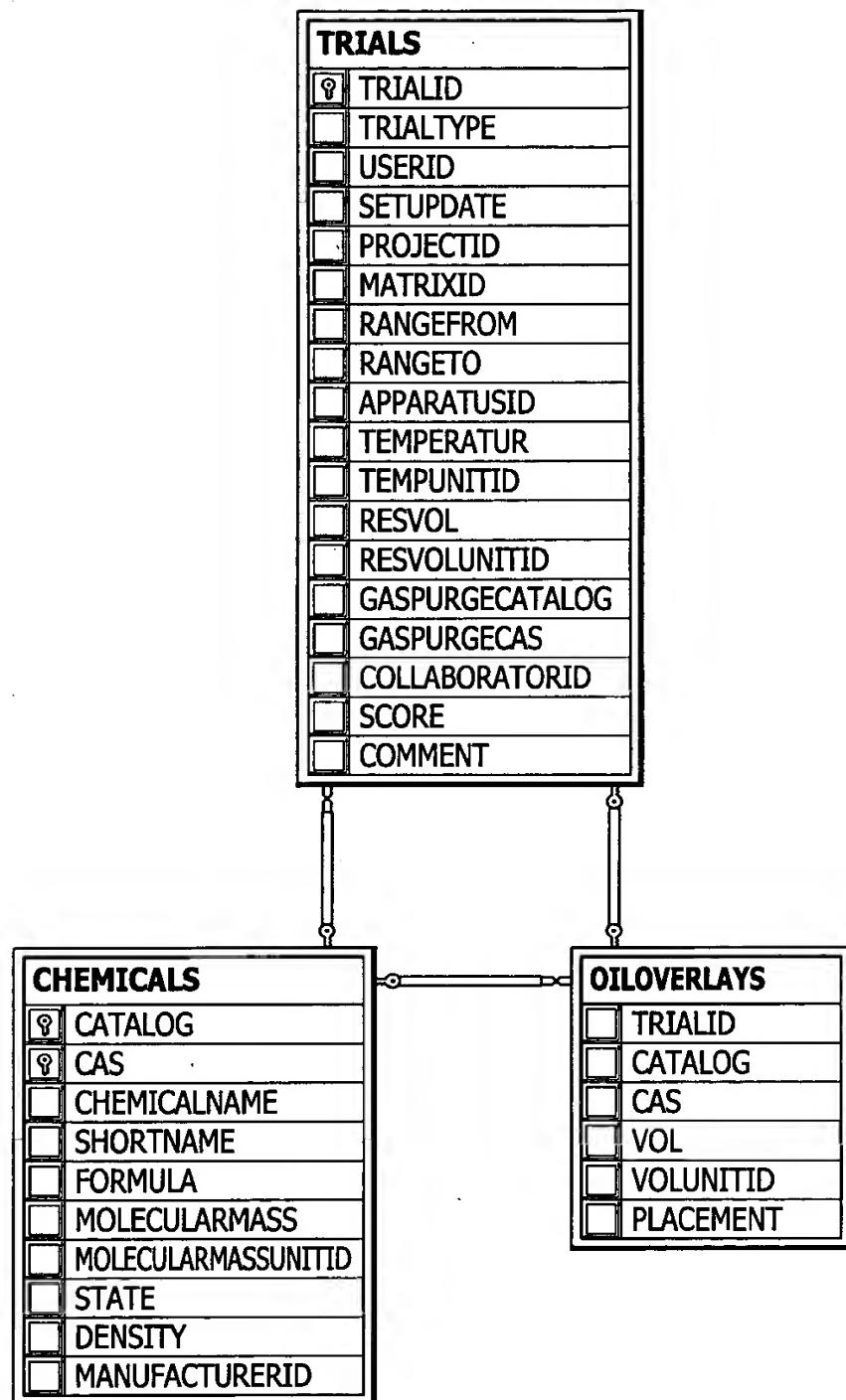


Fig. 244

PREPARATORS	
<input type="key" value="key"/>	PREPARATORID
<input type="checkbox"/>	PREPARATORNAME

Fig. 245

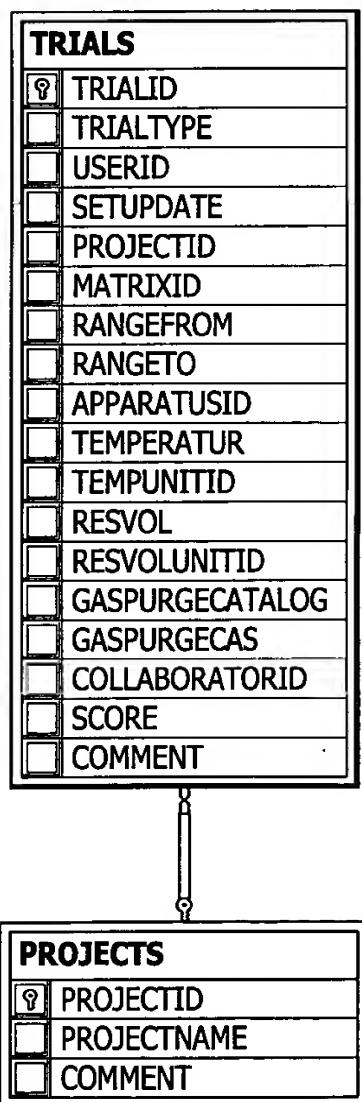


Fig. 246

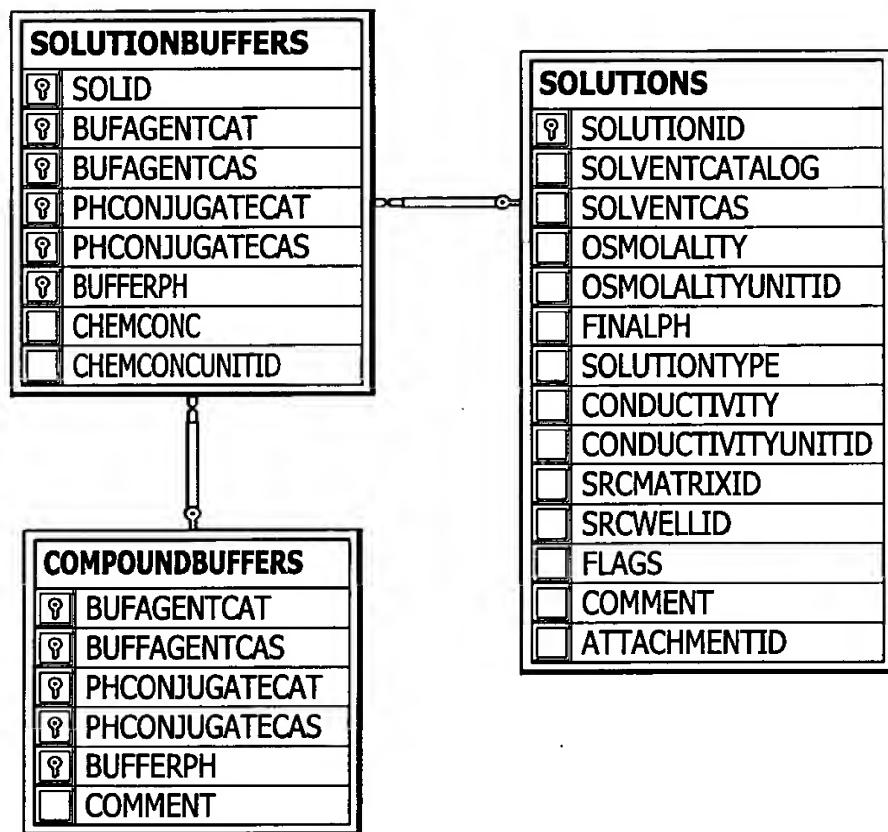


Fig. 247

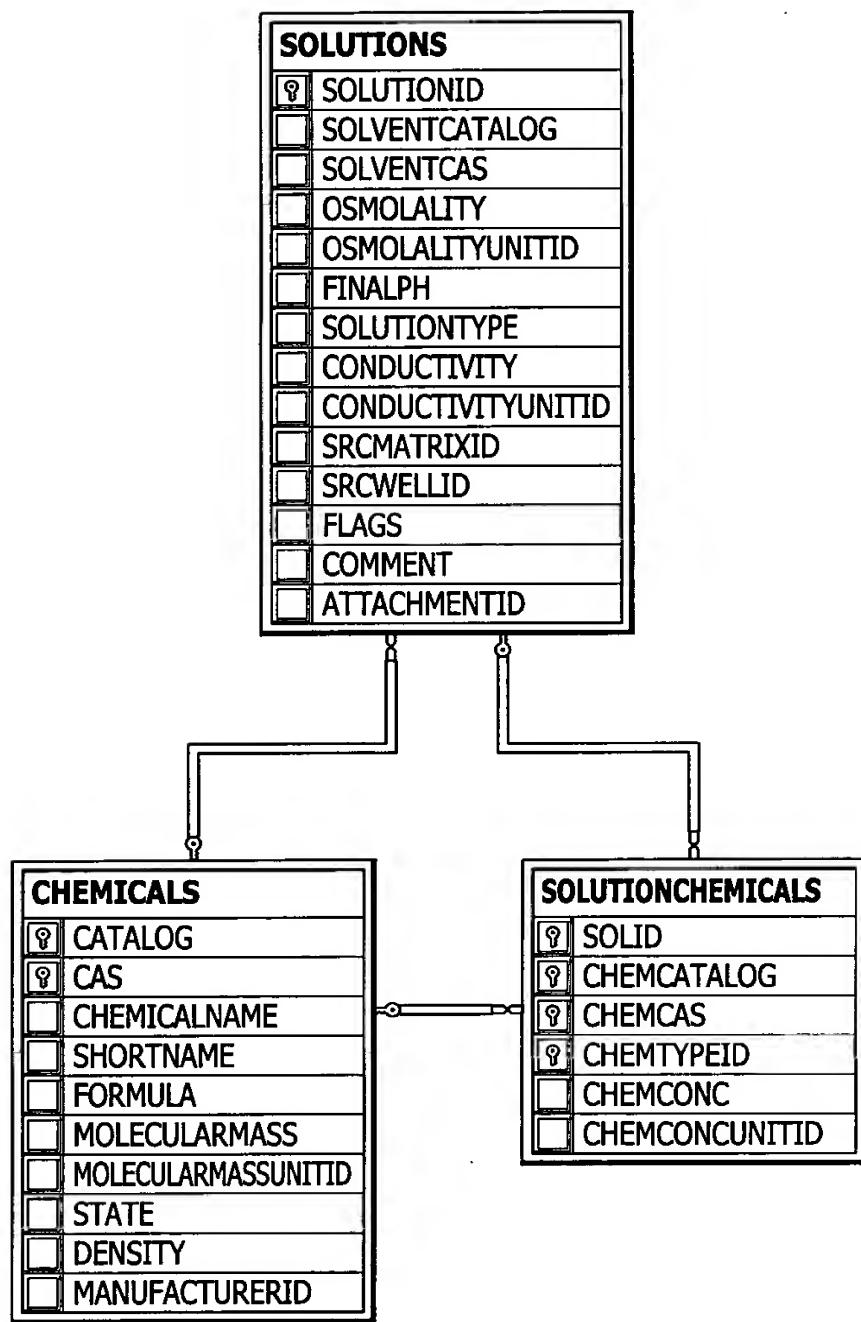


Fig. 248

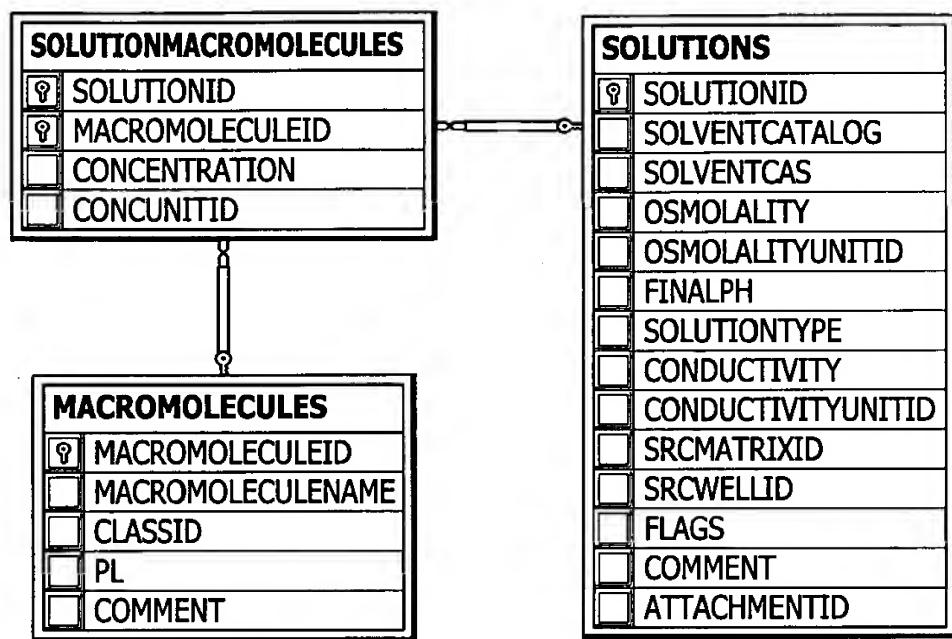


Fig. 249

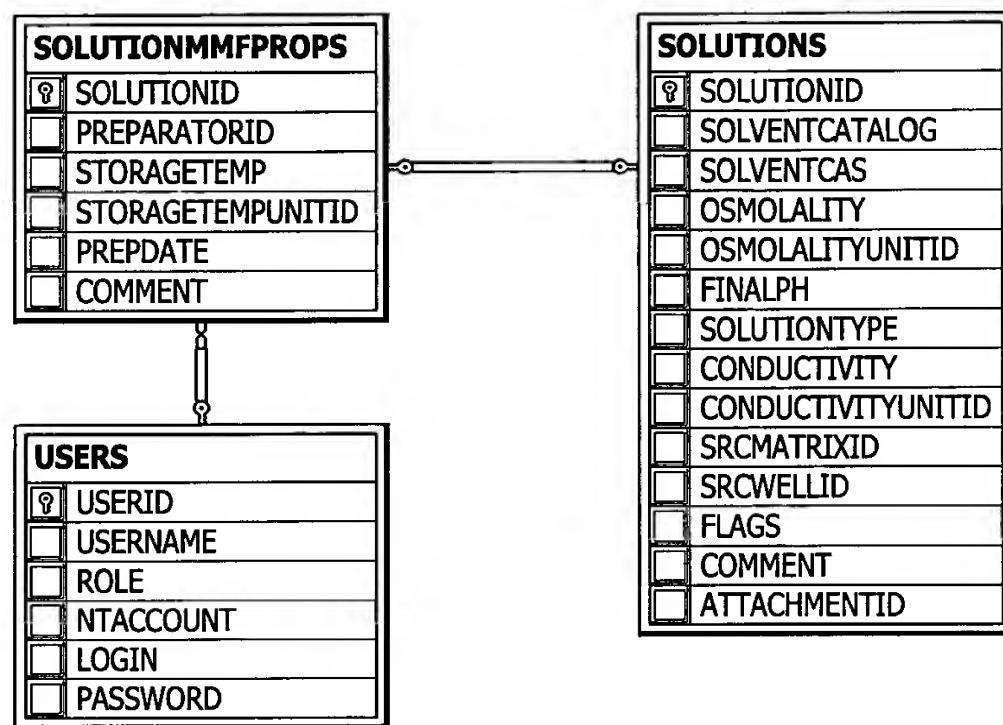


Fig. 250

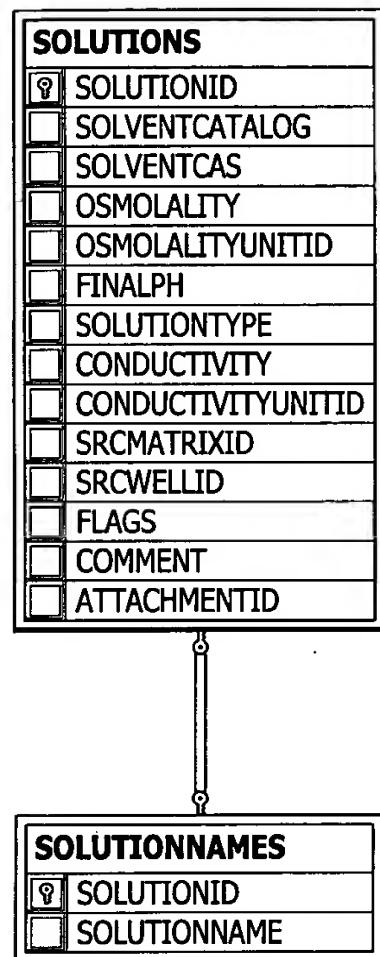


Fig. 251

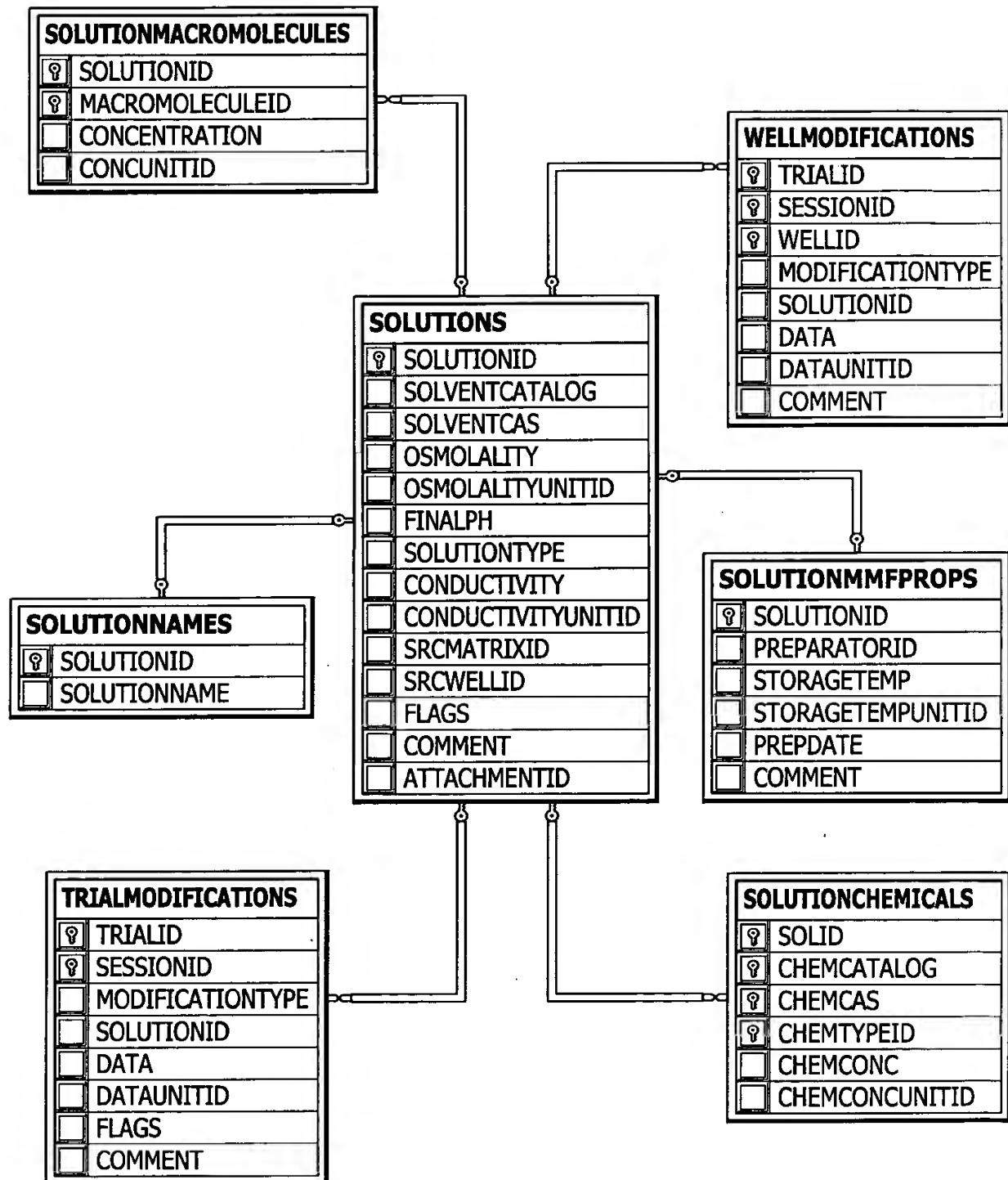


Fig. 252

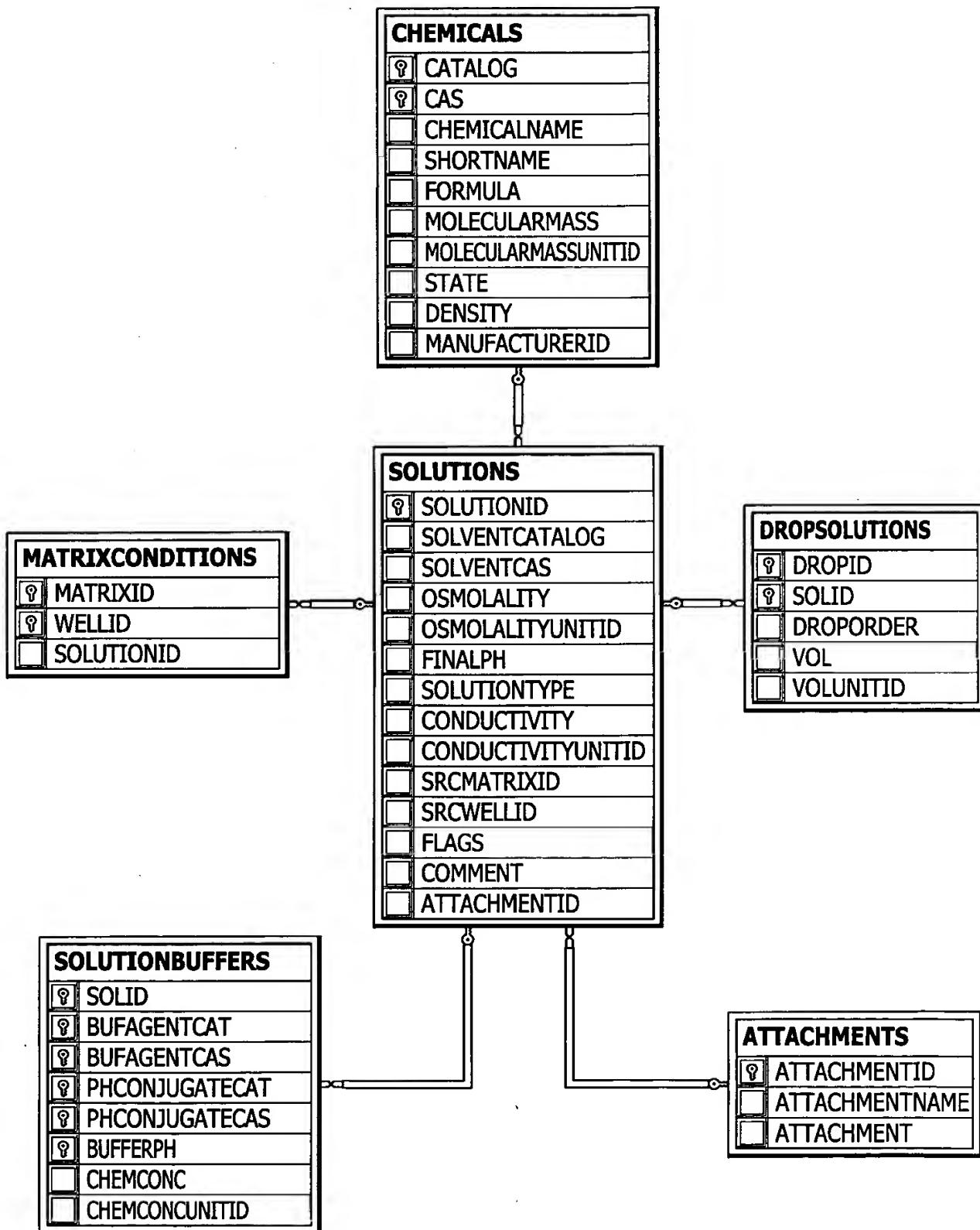


Fig. 253

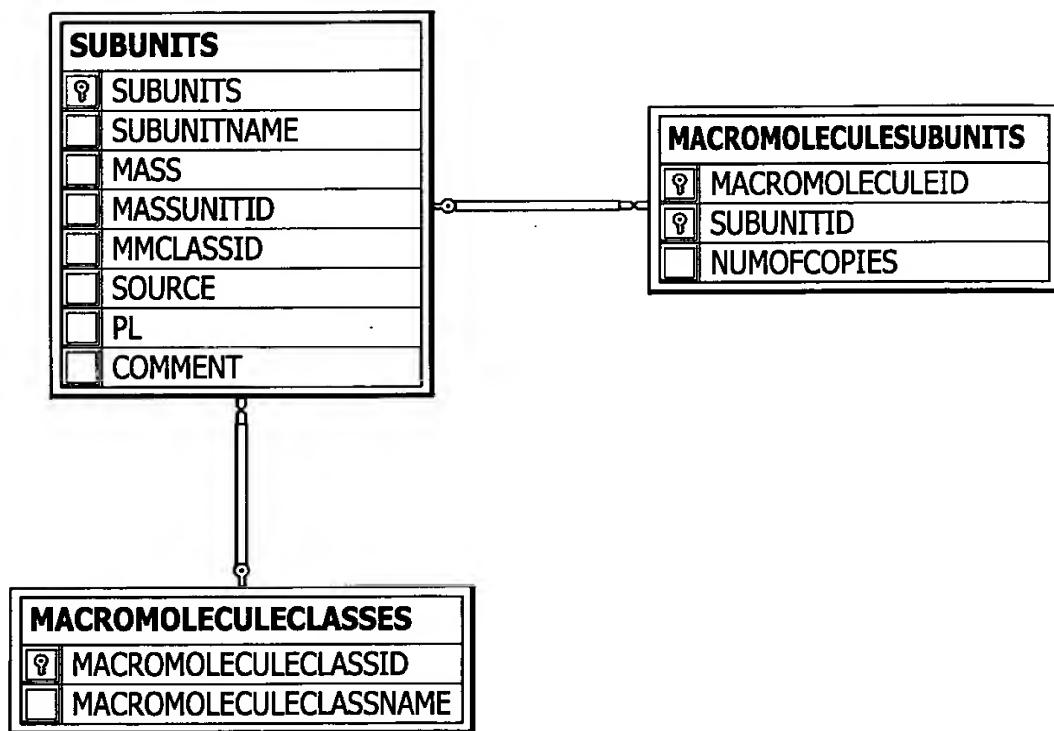


Fig. 254

SYSTEMINFO	
?	ATTRIB
	VALUE

Fig. 255

TRIALS	
?	TRIALID
	TRIALTYPE
	USERID
	SETUPDATE
	PROJECTID
	MATRIXID
	RANGEFROM
	RANGETO
	APPARATUSID
	TEMPERATUR
	TEMPUNITID
	RESVOL
	RESVOLUNITID
	GASPURGECATALOG
	GASPURGECAS
	COLLABORATORID
	SCORE
	COMMENT

Fig. 256

TRAYS	
?	BARCODE
	TRIALID
	TRAYID

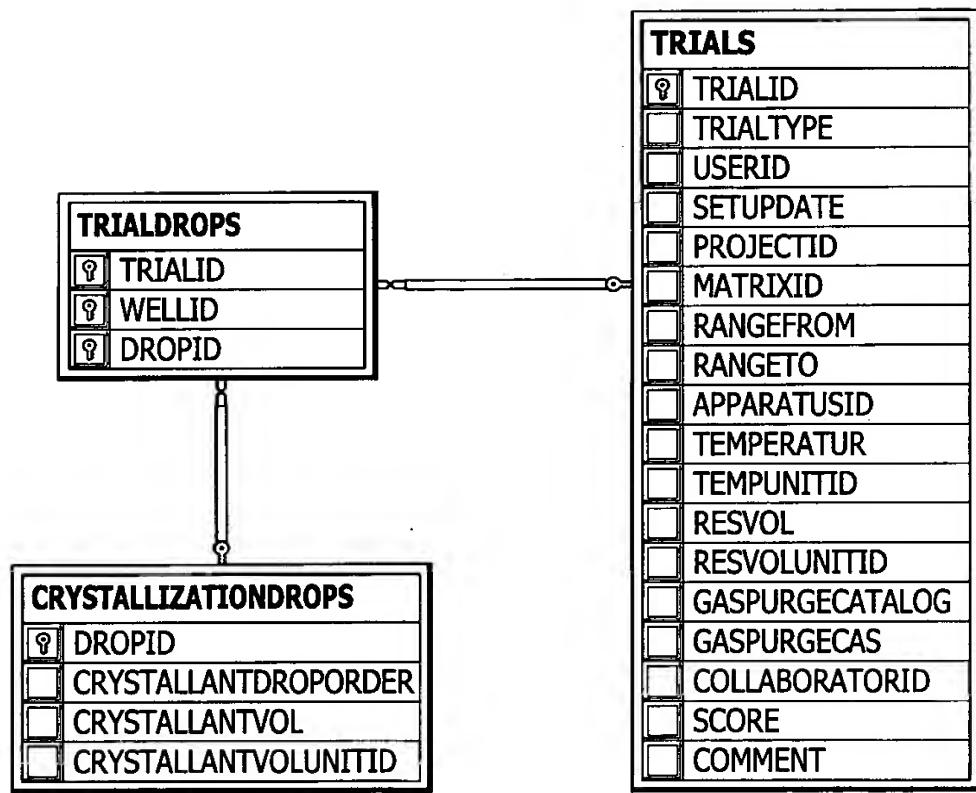


Fig. 257

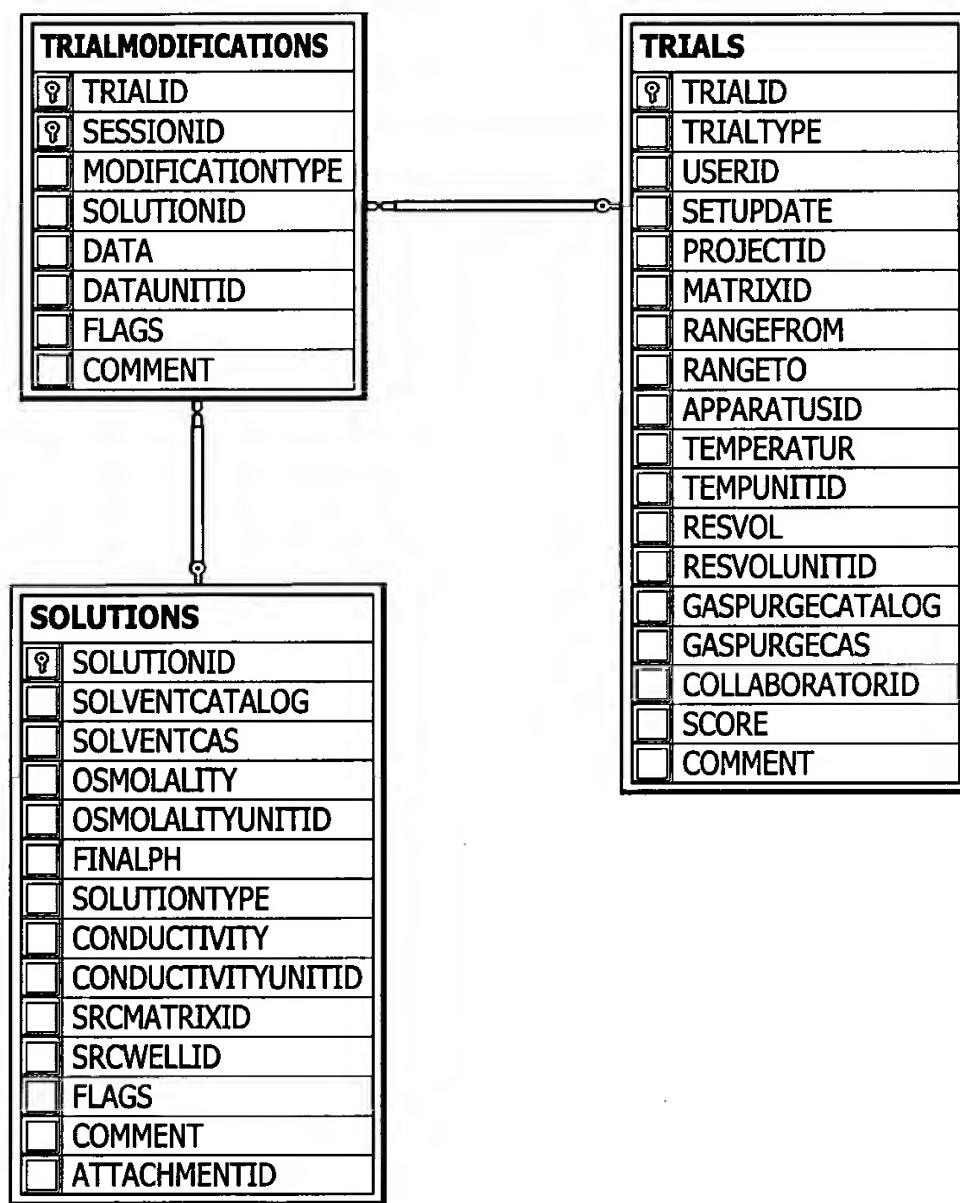
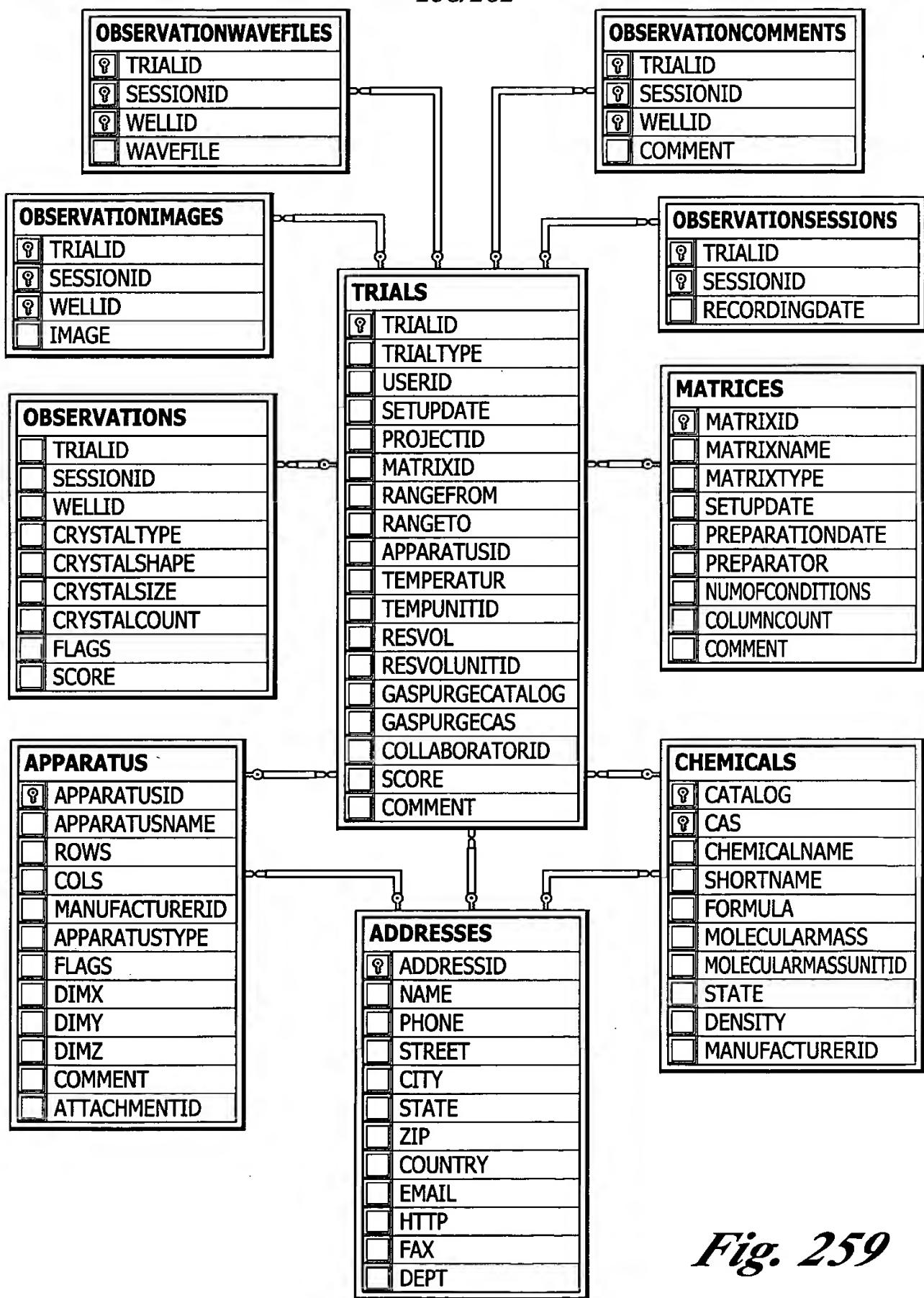


Fig. 258



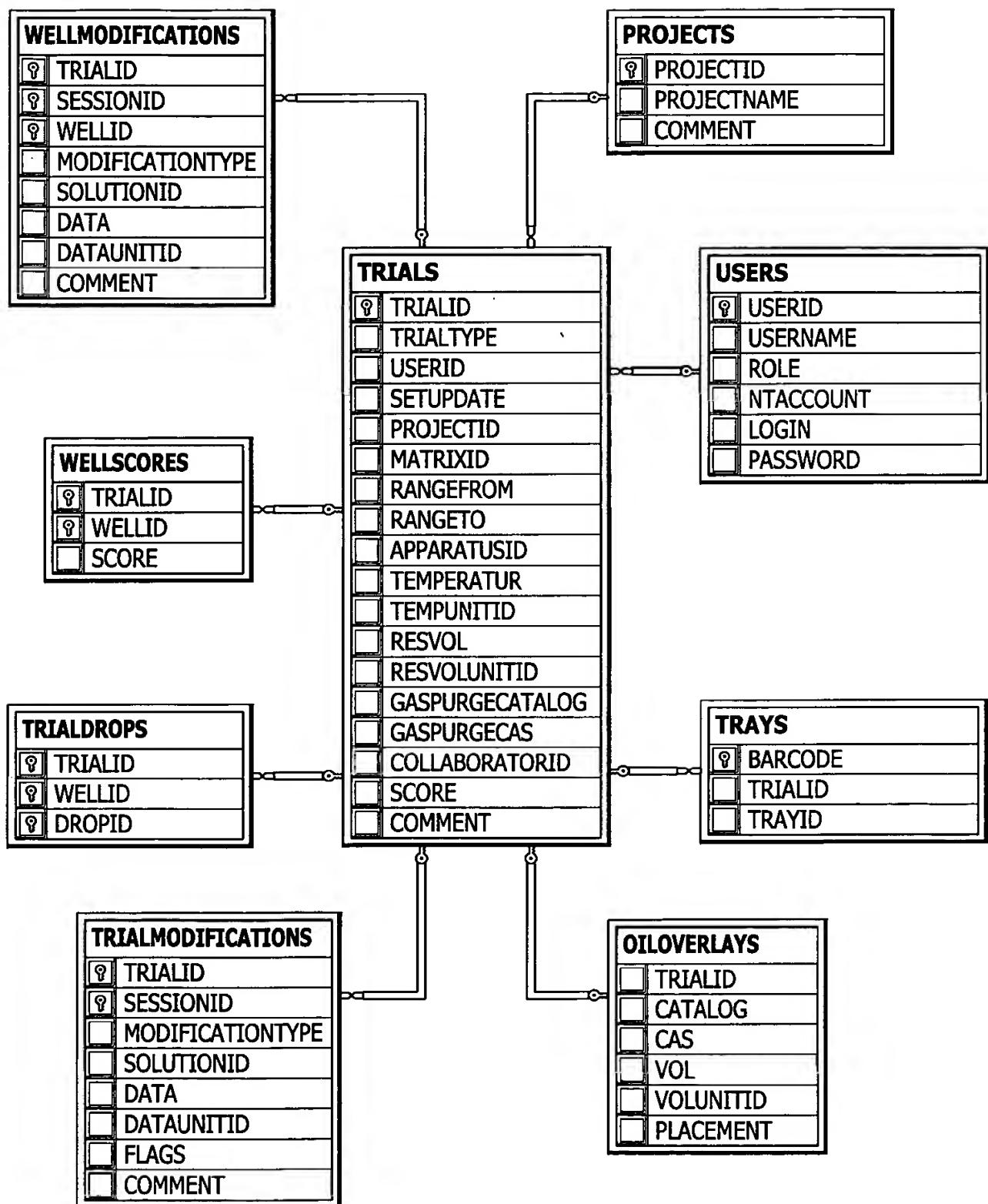


Fig. 260

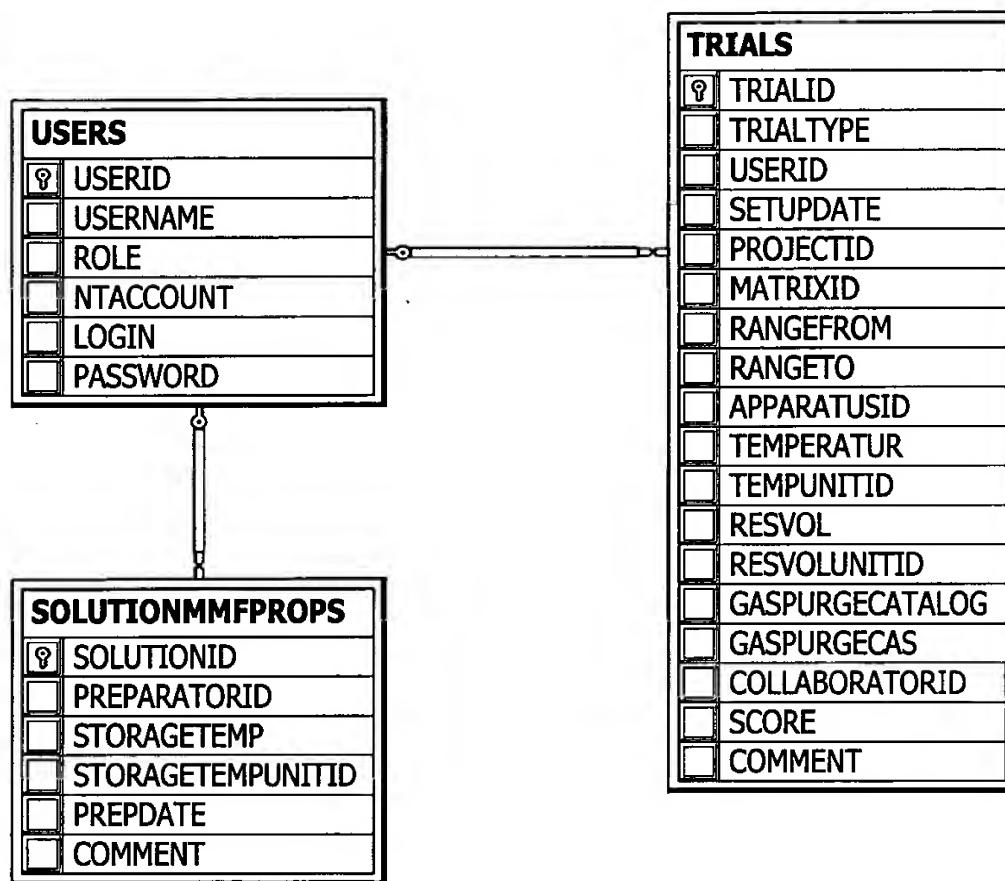


Fig. 261

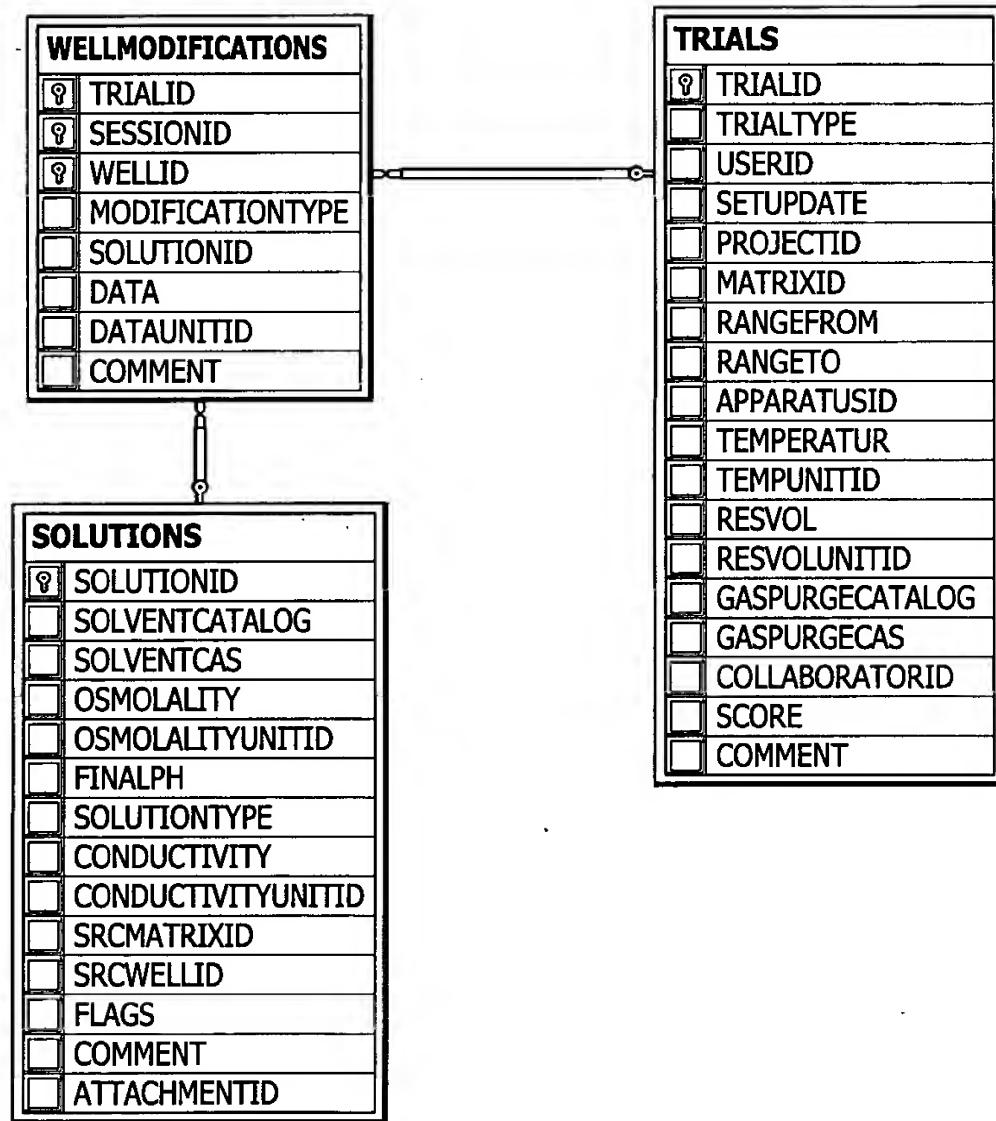


Fig. 262

262/262

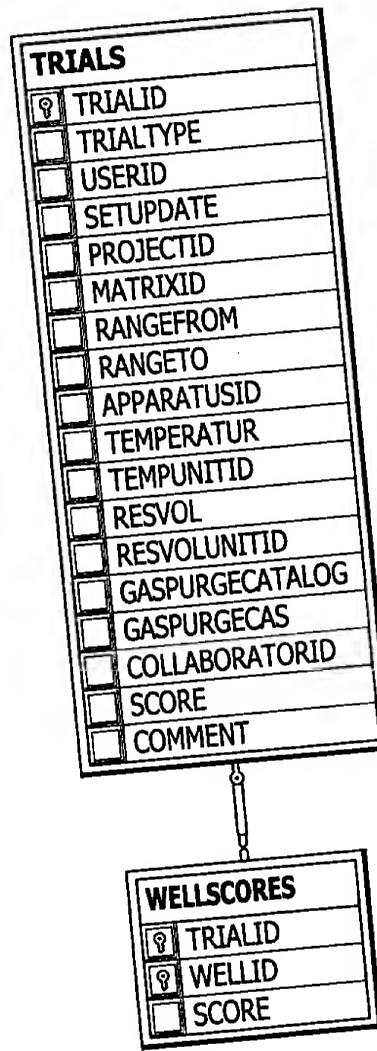


Fig. 263